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GOVERNOR



PEGGY M. HATCH
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20080018
Agency Interest No. 2083

Sarah Thigpen
Responsible Care Leader
Union Carbide Corporation
St. Charles Operations, Unit 9
P. O. Box 50
Hahnville, LA 70057

Re: Part 70 Operating Permit, Union Carbide Corp - St Charles Operations, Unit 9,
Union Carbide Corp, Taft, St. Charles Parish, Louisiana.

Dear Ms. Thigpen:

This is to inform you that the permit renewal and modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the ____ of _____, 2015, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2010.

Permit No.: 2876-V2

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary

CSN:LND
c: EPA Region VI

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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Taft, St. Charles Parish, Louisiana

I. Background

Union Carbide Corporation (UCC), a subsidiary of the Dow Chemical Company, operates Taft/Star Manufacturing Complex, an existing chemical manufacturing facility that began operation prior to 1969. Unit 9 started construction and operations under Permit No. 2876-V0 issued June 07, 2004. A modification, Permit No. 2876-V1, was issued on August 10, 2006 and later amended on October 23, 2006. Unit 9 is currently operating under this permit.

This is the Part 70 operating permit renewal and modification for Unit 9.

II. Origin

A permit application and Emission Inventory Questionnaire dated December 3, 2008 were submitted by Union Carbide Corp requesting a Part 70 operating permit renewal and modification for Unit 9. Additional information dated December 11, 2009 was also received.

III. Description

Unit 9 is a latex manufacturing plant at the Taft/Star manufacturing site.

Raw materials are received in bulk quantities (barges, bulk railcars and tank trucks) and offloaded into dedicated storage tanks. Hazardous or odorous materials are vapor balanced to the shipping container to minimize losses. Smaller volume raw materials (bags, totes drums supersacks) as well as raw material from pipelines, are fed directly from the shipping container to the process, or transferred into a feed tank system that allows for dissolution into water or mixture with other materials.

Raw materials are then fed to the reactor as defined by the product recipe. The reaction is a polymerization that is exothermic. Reactor temperature is controlled with a tempered water jacket system.

After the reaction is complete, the contents of the reactor (latex) are transferred to the Post Reactor. Here, additional raw materials are added to further reduce un-reacted raw materials (monomers). The latex in the post reactor is then cooled.

When downstream equipment is available, the post reactor is transferred into the adjusting tank. Here, the final latex is sampled and adjusted for percentage polymer. If required by the recipe, cooling takes place in this vessel.

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The product is next filtered to remove large particles and then pumped into the shipping containers and/or load tanks. The load tank transfers into shipping containers for transport to customers.

Under modification 2876-V1, UCC included as-built equipment changes for the four process trains already constructed, and included additional changes to support the construction and operation of the final two trains that were yet to be built at the time.

1. Storage Tank EIQ Nos. 4001 - 4009, 4018 - 4024, 4026 4029, 4043 - 4047: Tank emissions were revised due to temperature, annual throughput, and/or composition changes.
2. A Railcar Loading/Unloading Station, EIQ No. 4048, was added.
3. The following pressure tank was added: Tank 194D (Miscellaneous Feed Tote).
4. The following new tanks were added as insignificant activities:
V-258C, D-259A, Tote 273L, Tote 273M, V-329D, V-350E, V-350F, V-358F, and V-354F.
5. EIQ No. 4042, Dust Control Vent, was deleted.
6. Fugitive Emissions, EIQ No. 4041, were updated.
7. GCXVII Activity No. 12 was added: Emptying Raw Material Container.
8. The truck and railcar loading stations (EIQ Nos. 4030, 4031, 4032, 4033, 4034, 4035, 4036, 4037 and 4048) were incorporated into a Product Loading CAP, EIQ No. PL CAP.
9. A Blend Tank CAP (EIQ No. BT CAP) was added (includes EIQ Nos. 4009, 4049, and 4053).
10. A second Degasser was added for product flexibility.
11. GCXVII Activity No. 8 (previously Activity 9) was revised to increase the frequency from 72 to 250 events per year.
12. Applicable fugitive emissions regulations were consolidated under the Louisiana Fugitive Emissions Program Consolidation guidelines.

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13. Tanks SL-A and SL-B, vinyl acetate tanks, and General Condition XVII Activity No. 4 were deleted from Part 70 Operating Permit No. 2876-V0 for Unit 9 and included in the Part 70 Operating Permit No. 2656-V0 for Olefins Distribution/Site Logistics Unit that was approved on March 13, 2006 (refer to LDEQ Activity No. PER 19960023).

14. Five tanks (EIQ Nos. 4049, 4050, 4051, 4052, and 4053) were added.

The permit 2876-V1 was later amended to update the semiannual report schedule for fugitive emissions to coincide with the semiannual monitoring reports for part 70 Operating Permits, as per 40 CFR 63.2520(b)(5).

With this renewal / modification, UCC proposes the following:

1. UCC informs LDEQ that as of November 22, 2006, construction of the first four reactor trains is complete. Construction of the remaining two trains and associated equipment has been postponed until economic conditions improve. UCC requests that these sources, EIQ Nos. 4018, 4019, 4020, 4021, 4034, 4035, 4049, 4050, 4051, 4052, 4053, (EQTs 074, 075, 076, 077, 090, 091, 726, 727, 728, 729, 735), be included in this permit so that construction can resume at a future date.
2. This modification moves tanks from the Emission Sources List to the Insignificant Activities list, as they store or will store surfactant only. EQT729 has not been constructed yet. The maximum vapor pressure is 0.45 psia. Based on capacity and vapor pressure, 40 CFR 60 Subpart Kb does not apply per 40 CFR 60.110b (a) or 40 CFR 60.110b (b). 40 CFR 63 Subpart FFFF (MON) does not apply since the equipment does not store any HAPs or stores material where HAPs are at impurity levels.
3. This modification moves two tanks (EIQ Nos. 4054 and 4055) from the Insignificant Activities List to the Emission Sources List.
4. This modification moves Totes EIQ Nos. 193D and 194D (EQTs 730 and 731) from the Emission Sources List to the Insignificant Activities List, based on capacity and true vapor pressure of material stored.
5. This modification separates ARE009 Wastewater into process wastewater, (EIQ No. PW) and maintenance wastewater (EIQ No. MW), and updates the regulatory tables accordingly.

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6. Emission estimating methodology was updated to represent current knowledge of raw materials and product speciation and operating conditions.
7. Unit 9 is in the process of being sold to Arkema Chemical Co. As part of the sale, two storage tanks from Site Logistics, Permit No. 2656-V0, and two sumps from Environmental Operations (EnvOps), Permit No. 2104-V2, are being included in the Unit 9 permit. The Site Logistics and EnvOps permits will be amended to remove these sources.

There is no new construction, physical or operational changes proposed with this permit renewal application. Any changes in emissions are due to the reconciliation of emissions based on updated emission factors, calculation methodologies, and current knowledge of existing operations. Proposed emissions increases were updated to be consistent with current process knowledge and future constructions (check the first proposed update above). Emission increases are not associated with a change in the method of operation.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	1.35	1.36	+0.01
SO ₂	0.03	0.03	-
NO _x	4.34	4.51	+0.17
CO	3.64	3.79	+0.15
VOC*	1.64	2.24	+0.60

*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
1,4-Dioxane	<0.01	<0.01	-
Acetaldehyde	<0.01	0.04	+0.04
Acrylamide	<0.01	0.01	+0.01
Acrylic Acid	0.02	0.06	+0.04
Acrylonitrile	0.04	0.05	+0.01
Ethyl Acrylate	0.02	0.03	+0.01
Ethylene Oxide	<0.01	<0.01	-
Formaldehyde	<0.01	0.01	+0.01
Glycol Ethers II-S	<0.01	-	-<0.01
Hydroquinone	<0.01	<0.01	-
Methanol	0.01	0.01	-
Methyl Methacrylate	0.21	0.28	+0.07

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*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Propyleneimine	0.01	0.03	+0.02
Styrene	0.05	0.06	+0.01
Vinyl Acetate	0.66	0.69	+0.03
Total	1.02	1.27	+0.25

Non-VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Ammonia	14.63	15.37	+0.74
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IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and NESHAP. Prevention of Significant Deterioration does not apply.

UCC Taft / Star Complex is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. Unit 9 emits Class I and Class II TAPs and complies with MACT standards. Unit 9 meets MACT requirements by complying with applicable provisions of 40 CFR 63, Subpart FFFF, National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing. Unit 9 was the first unit to emit Acrylamide, and also emits Acrylonitrile and Ammonia above their respective minimum emission rate (MER).

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

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VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2010; and in the <local paper>, <local town>, on <date>, 2010. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Emissions associated with the proposed permit renewal were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

Dispersion Model(s) Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
NA			

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VIII. General Condition XVII Activities

	Activity	Frequency (events/yr)	Emissions (TPY VOC)
1.	Raw material hose disconnection for trucks and rail cars	800	<0.01
2.	Raw material hose disconnection for totes	2,400	<0.01
3.	Drum pump removal from raw material drums	1,800	0.04
4.	Truck and rail car sampling	400	0.01
5.	Tote and drum sampling	450	0.01
6.	Pump replacement	52	<0.01
7.	In-line item replacement	100	<0.01
8.	Vessel steam purges	250	<0.01
9.	Storage tank / process vessel relief device replacement	30	<0.01
10.	Strainer replacement	52	<0.01
11.	Storage tank de-pressurization for maintenance	12	<0.01
12.	Emptying Raw Material Containers	3,600	3.60 (PM ₁₀)

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IX. Insignificant Activities

Tank ID:	Description	Operating Rate or Tank Capacity	Citation LAC 33:III 501.B.5
4022 - Tank D-220A	Surfactant	116,484 gals	§ A.10
4023 - Tank 220B	Surfactant	116,484 gals	§ A.10
4027 - Tank 220C	Surfactant	15,221 gals	§ A.10
4029 - Tank 220D	Surfactant	15,221 gals	§ A.10
4047 - Tote 277B	Monomer	550 gals	§ A.3
4052 - Tank 220F	Surfactant	15,221 gals	§ A.10
Tank D-225A*	Caustic Storage	15,221 gals	§ A.10
Tank D-259A	Solids in H ₂ O	50 gal	§ A.4
Tank V-220E	Surfactant	15,221 gals	§ A.10
Tank V-223A	Solids in H ₂ O	15,221 gals	§ A.10
Tank V-245A	Solids in H ₂ O	2,897 gals	§ A.4
Tank V-253A	Solids in H ₂ O	2,897 gals	§ A.4
Tank V-256A	Solids in H ₂ O	2,035 gal	§ A.4
Tank V-258A	Solids in H ₂ O	2,035 gal	§ A.4
Tank V-258B	Solids in H ₂ O	2,035 gal	§ A.4
Tank V-258C	Solids in H ₂ O	2,035 gal	§ A.4
Tank V-261A	Solids in H ₂ O	2,035 gal	§ A.4
Tank V-263A	Solids in H ₂ O	3,007 gals	§ A.4
Tank V-271A	Solids in H ₂ O	3,007 gals	§ A.4
Tank V-275 A, B, C, D, E, F	Soap Weigh Tank	595 gals each	§ A.3
Tank V-328 A	Thickener MB Makeup	2,897 gals	§ A.3
Tank V-329 A	Thickener A Step Tank	3,007 gals	§ A.3
Tank V-329 B	Thickener B Step Tank	2,035 gals	§ A.3
Tank V-329 C	Thickener C Step Tank	3,007 gals	§ A.3
Tank V-329 D	Thickener D Step Tank	2,035 gals	§ A.3
Tank V-770 A	Misc. Hand-Add Tank	550 gals	§ A.3
Tanks V-350 A, B, C, D, E, F	3 rd Stream Feed	595 gals each	§ A.3

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Tank ID:	Description	Operating Rate or Tank Capacity	Citation LAC 33:III 501.B.5
Tanks V-354 C, D, F	Misc. Stream Mix	1,904 gals each	§ A.3
Tanks V-358 C, D, F	Misc. Stream Feed	1,904 gals each	§ A.3
Tote 191 B	Functional Monomer B Tote	550 gals	§ A.3
Tote 193D	Misc. Monomer and Surfactant Tote	550 gals	§ A.3
Tote 194D	Misc. Monomer and Surfactant Tote	550 gals	§ A.3
Tote 234 A	Fungicide A Tote	550 gals	§ A.3
Tote 234 B	Fungicide B Tote	550 gals	§ A.3
Tote 234 D	Fungicide D Tote	550 gals	§ A.3
Tote 235 A	Fungicide E Tote	550 gals	§ A.4
Tote 236 A	Fungicide F Tote	550 gals	§ A.3
Tote 238 A	Drying Aid Tote	550 gals	§ A.3
Tote 242 B	Emulsion B Tote	550 gals	§ A.3
Tote 242 C	Emulsion C Tote	550 gals	§ A.3
Tote 246 A	Oxidizer Tote	550 gals	§ A.3
Tote 272 A	Defoamer Tote	550 gals	§ A.3
Tote 272 B	Defoamer Tote	550 gals	§ A.3
Tote 272 C	Defoamer Tote	550 gals	§ A.3
Tote 272 D	Defoamer Tote	550 gals	§ A.3
Tote 272 E	Defoamer Tote	550 gals	§ A.3
Tote 273 A	Surfactant A Tote	550 gals	§ A.10
Tote 273 B	Surfactant B Tote	550 gals	§ A.10
Tote 273 C	Surfactant C Tote	550 gals	§ A.10
Tote 273 D	Surfactant D Tote	550 gals	§ A.10
Tote 273 E	Surfactant E Tote	550 gals	§ A.10
Tote 273 F	Surfactant F Tote	550 gals	§ A.10
Tote 273 G	Surfactant G Tote	550 gals	§ A.10
Tote 273 H	Surfactant H Tote	550 gals	§ A.10
Tote 273 J	Surfactant J Tote	550 gals	§ A.10

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Tank ID:	Description	Operating Rate or Tank Capacity	Citation LAC 33:III 501.B.5
Tote 273 K	Surfactant K Tote	550 gals	§ A.10
Tote 273 L	Surfactant L Tote	550 gals	§ A.10
Tote 273 M	Surfactant M Tote	550 gals	§ A.10
Tote 277 A	Functional Monomer G Tote	550 gals	§ A.10
Tote 277 C	Functional Monomer J Tote	550 gals	§ A.3
Tote 278 A	Reducer A Tote	550 gals	§ A.4
Tote 330 A	Thickener C Tote	550 gals	§ A.3
Water Washing Operation		3.586drums/yr	§ A.7
Sulfuric Acid Tank	1000 gals (with less than 1 lb/yr)	100,000 lbs/yr throughput	§ D

*Tank D-225A is a caustic non-venting ammonium hydroxide tank

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X. Applicable Louisiana and Federal Air Quality Requirements																							
ID No.: Description		LAC 33:III.Chapter											40 CFR 60 NSPS										
		5 ¹	9	11	13	15	21	22	29*	51*	56	59*	A	Da	Db	Dc	Kb	VV	VVa	NN	RR	YY	
AI 2083	UCC Plant Wide		1	1	1		1			1	1	1											
UNF 10	Unit 9										1		1										
EQT 57	4001 -- Tank Vent No. 1						3				1						3						
EQT 58	4002 -- Tank Vent No. 2						3				1						3						
EQT 59	4003 -- Tank Vent No. 3						3				1						3						
EQT 60	4004 -- Tank Vent No. 4						3				1						3						
EQT 61	4005 -- Tank Vent No. 5						3				1						3						
EQT 62	4006 -- Tank Vent No. 6						3				1						3						
EQT 63	4007 -- Tank Vent No. 7						3				1						3						
EQT 64	4008 -- Tank Vent No. 8						3				1						3						
EQT 65	4009 -- Tank Vent No. 9						3				1						3						
EQT 74	4018 -- Tank Vent No. 18						3				1						3						
EQT 75	4019 -- Tank Vent No. 19						3				1						3						
EQT 76	4020 -- Tank Vent No. 20						3				1						3						
EQT 77	4021 -- Tank Vent No. 21						3				1						3						

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X. Applicable Louisiana and Federal Air Quality Requirements																						
ID No.: Description		LAC 33:III Chapter										40 CFR 60 NSPS										
		5 ¹	9	11	13	15	21	22	29*	51*	56	59*	A	Da	Db	Dc	Kb	VV	VVa	NN	RR	YY
EQT 80	4024 -- Tank Vent No. 24						3							1								
EQT 82	4026 -- Tank Vent No. 26						3							3								
EQT 84	4028 -- Tank Vent No. 28						3							1								
EQT 86	4030 -- Product Loading A						3							1								
EQT 87	4031 -- Product Loading B						3							1								
EQT 88	4032 -- Product Loading C						3							1								
EQT 89	4033 -- Product Loading D						3							1								
EQT 90	4034 -- Product Loading E						3							1								
EQT 91	4035 -- Product Loading F						3							1								
EQT 92	4036 -- Blend Loading						3							1								
EQT 93	4037 -- BRC Loading						3							1								
EQT 94	4038 Thermal Oxidizer			1	1	3	3							1								
EQT 95	4039 -- Cooling Tower No. 1																					
EQT 96	4040 -- Cooling Tower No. 2																					
FUG 2	4041 -- Fugitive Emissions						1							1								
EQT 102	Tank A						3							1								

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.: Description		LAC 33:III.Chapter											40 CFR 60 NSPS									
		51	9	11	13	15	21	22	29*	51*	56	59*	A	Da	Db	Dc	Kb	VV	VVa	NN	RR	YY
EQT 98	Tank B						1			1							1					
EQT 99	Tank C						3			1							1					
EQT 103	Tank D						3			3							3					
EQT 104	Tank E						3			3							3					
ARE 09	Maintenance Wastewater									1												
EQT 105	Heat Exchangers-Closed System																					
EQT 106	Reactors/Post Reactors						1			1											3	
EQT 107	Degasser #1						1			1										3		
EQT 621										1												
EQT 721	4046 Tank Vent No. 46									1							3					
EQT 722	4045 Tank Vent No. 45									1							3					
EQT 723	4044 Tank Vent No. 44									1							3					
EQT 724	4043 Tank Vent No. 43									1							3					
EQT 725	Degasser #2						1			1										3		
EQT 726	4049 Tank Vent No. 49																3					
EQT 727	4050 Tank Vent No. 50																3					

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X. Applicable Louisiana and Federal Air Quality Requirements																						
ID No.: Description		LAC 33:III.Chapter										40 CFR 60 NSPS										
		5 ¹	9	11	13	15	21	22	29*	51*	56	59*	A	Da	Db	Dc	Kh	VV	VVa	NN	RR	YY
EQT 728	4051 Tank Vent No. 51																3					
EQT 732	D-192A Tank						1				1						3					
EQT 733	D-110A Tank									1							3					
EQT 734	D-115A Tank									1							3					
EQT 735	4053 Tank Vent No. 53																3					
EQT 1077	4054 Tank Vent No. 54									1							3					
EQT 1078	4055 Tank Vent No. 55									1							3					
EQT 1080	Unloading Activities																					
EQT 1081	Process Wastewater																					
EQT 100	Tank SL-A	1					1			1							1					
EQT 101	Tank SL-B	1					1			1							1					
EQT 0978	3266-F-E28A SE Corner of Latex Block Sump									1												
EQT 0979	3267-F-E28B SW Corner of Latex Block Sump									1												

* The regulations indicated above are State Only regulations.

¹ LAC 33:III.501 C.6 citations are federally enforceable except when it specifically states that the regulation is State only.

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KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp - St Charles Operations
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Union Carbide Corporation St Charles Operations
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X. Applicable Louisiana and Federal Air Quality Requirements																						
ID No.: Description		40 CFR 61					40 CFR 63 NESHAP										40 CFR					
		A	M	V	FF	A	M	FF	A	F	G	H	Q	JJJ	EE EE	FF FF	GGG GG	64	68	82		
AI 2083	UCC Plant Wide	1	1		1												1		1	1	1	
UNF 10	Unit 9							1	3				3			1		3				
EQT 57	4001 -- Tank Vent No. 1															2						
EQT 58	4002 -- Tank Vent No. 2															2						
EQT 59	4003 -- Tank Vent No. 3															2						
EQT 60	4004 -- Tank Vent No. 4															2						
EQT 61	4005 -- Tank Vent No. 5															2						
EQT 62	4006 -- Tank Vent No. 6															2						
EQT 63	4007 -- Tank Vent No. 7															2						
EQT 64	4008 -- Tank Vent No. 8															2						
EQT 65	4009 -- Tank Vent No. 9															3						
EQT 74	4018 -- Tank Vent No. 18															2						
EQT 75	4019 -- Tank Vent No. 19															2						
EQT 76	4020 -- Tank Vent No. 20															2						
EQT 77	4021 -- Tank Vent No. 21															2						
EQT 80	4024 -- Tank Vent No. 24															3						

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X. Applicable Louisiana and Federal Air Quality Requirements																							
ID No.: Description	40 CFR 61				40 CFR 63 NESHAP												40 CFR						
	A	M	V	FF	A	M	FF	A	F	G	H	Q	JJJ	EE	FF	GG	GG	GG	GG	64	68	82	
EQT 82																3							
EQT 84																3							
EQT 86																1							
EQT 87																1							
EQT 88																1							
EQT 89																1							
EQT 90																1							
EQT 91																1							
EQT 92																1							
EQT 93																1							
EQT 94																1							
EQT 95												3											
EQT 96												3											
FUG 2				3												1							
EQT 102																1							
EQT 98																1							

Union Carbide Corp - St Charles Operations
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X. Applicable Louisiana and Federal Air Quality Requirements																						
ID No.	Description	40 CFR 61					40 CFR 63 NESHAP										40 CFR					
		A	M	V	FF	A	M	FF	A	F	G	H	Q	JJJ	EE EE	FF FF	GGG GG	64	68	82		
EQT 99	Tank C														1							
EQT 103	Tank D														3							
EQT 104	Tank E														3							
ARE 09	Wastewater														1							
EQT 105	Heat Exchangers System														2							
EQT 106	Reactors Post Reactors														1		3					
EQT 107	Degasser #1														1		3					
EQT 621	4048 BRC Loading #2														1							
EQT 721	4046 Tank Vent No. 46														1							
EQT 722	4045 Tank Vent No. 45														1							
EQT 723	4044 Tank Vent No. 44														1							
EQT 724	4043 Tank Vent No. 43														1							
EQT 725	Degasser #2														1		3					
EQT 726	4049 Tank Vent No. 49														3							
EQT 727	4050 Tank Vent No. 50														3							
EQT 728	4051 Tank Vent No. 51														3							

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X. Applicable Louisiana and Federal Air Quality Requirements																			
ID No.:	Description	40 CFR 61			40 CFR 63 NESHAP										40 CFR				
		A	M	V	FF	A	M	FF	A	F	G	H	Q	JJJ	EE	FF	GG	GG	GG
EQT 732	D-192A Tank															1			3
EQT 733	D-110A Tank															1			
EQT 734	D-115A Tank															3			3
EQT 735	4053 Tank Vent No. 53															3			
EQT1077	4054 Tank Vent No. 54															1			
EQT1078	4055 Tank Vent No. 55															1			
EQT1080	Unloading Activities														1				
EQT1081	Process Wastewater															3			
EQT100	Tank SL-A															1			
EQT101	Tank SL-B															1			
EQT0978	3266-E-E28A SE Corner of Latex Block Sump																		
EQT0979	3267-E-E28B SW Corner of Latex Block Sump																		

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KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

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XI. Explanation for Exemption Status or Non-Applicability of a Source		
ID No: Description	Requirement	Notes
EQI 57 EQI 58 EQI 59 EQI 60	NESHAP Subpart FFFF. National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing. [40 CFR 63.2470]	EXEMPT. Vents do not meet the definition of batch process vent since total uncontrolled HAP emissions are less than 200 lbs/yr. 40 CFR 63.2550(i)
EQI 61 EQI 62 EQI 63 EQI 64 EQI 74 EQI 75	NSPS Subpart Kb - Standards of Performance for Volatile Organic for Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. [40 CFR 60.110b(a)]	DOES NOT APPLY. Tanks do not meet the definition of storage vessel since they are process tanks. 40 CFR 60.111b.
EQI 76 EQI 77	Storage of VOC Compounds: [LAC 33:III 2103.A]	DOES NOT APPLY: VOC vapor pressure less than 1.5 psia.
EQI 80 EQI 84 EQI 734	NESHAP Subpart FFFF. National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing. [40 CFR 63.2470]	EXEMPT. Tanks store organic liquids that contain HAPs as impurities. 40 CFR 63.2550(i)
	NSPS Subpart Kb - Standards of Performance for Volatile Organic for Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. [40 CFR 60.110b(a)]	DOES NOT APPLY. Tanks have maximum capacity less than 19,812 gallons
	Storage of VOC Compounds: [LAC 33:III 2103.A]	DOES NOT APPLY: VOC vapor pressure less than 1.5 psia.

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XI. Explanation for Exemption Status or Non-Applicability of a Source			
ID No:	Description	Requirement	Notes
EQ1073	0.110A	NSPS Subpart Kb – Standards of Performance for Volatile Organic for Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. [40 CFR 60.110b(a)]	DOES NOT APPLY: Tanks have maximum capacity less than 19,812 gallons
		Storage of VOC Compounds: [LAC 33:III 2103.A]	DOES NOT APPLY: VOC vapor pressure less than 1.5 psia.
EQ165 EQ1726 EQ1735 GRP135	4000 – Tank Vent No 9 4054 – Tank Vent No 49 4053 – Tank Vent No 53 Blend Tank Cap	Storage of VOC Compounds: [LAC 33:III 2103.A]	DOES NOT APPLY: VOC vapor pressure less than 1.5 psia.
		NSPS Subpart Kb – Standards of Performance for Volatile Organic for Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. [40 CFR 60.110b(b)]	DOES NOT APPLY: Regulation doesn't apply to tanks with capacities between 19,815 gals and 39,891 gals, and with VOC vapor pressure less than 2.1 psia (these tanks have capacity of 30,081 gals & a vapor pressure < 0.5 psia).
		NESHAP Subpart FFFF, National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing. [40 CFR 63.2490] [40CFR 63.104(a)]	EXEMPT. Table 10 of the MON is applicable to the heat exchange system. Compliance with 40 CFR 63.104 is compliance with the Table 10 of 40 CFR 63 Subpart FFFF, but the exchangers meet the exemption requirements from 40 CFR 63.104(a). Therefore the heat exchange system is exempted from the MON.

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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No: Description	Requirement	Notes
EQ182 EQ184 EQ1727 EQ1728	NESHAP Subpart FFFF. National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing. [40 CFR 63.2550(i)]	DOES NOT APPLY: Tanks do not store HAPs.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic for Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. [40 CFR 60.110b(a) & (b)]	DOES NOT APPLY: This regulation does not apply to tanks with capacities < 19,815 gals; Tanks 4026 and 4051, have capacities < 19,815 gals. This regulation does not apply to tanks with capacities > 39,891 gals when storing liquids with a maximum true VOC vapor pressure < 0.5 psia. Tanks D, E, and 4050 have capacities > 39,891 gals and a VOC vapor pressures < 0.5 psia.
	Storage of VOC Compounds: [LAC 33:III 2103.B]	DOES NOT APPLY: VOC vapor pressure is less than 1.5 psia.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III .5109]	DOES NOT APPLY: Tanks do not store or emit any TAPs.
EQ186 EQ187 EQ188 EQ189 EQ190 EQ191 EQ192 EQ193 EQ1621 GRP136	Control of Emissions of Organic Compounds – VOC Loading: [LAC 33:III 2107] 4030 --- Product Loading A 4031 --- Product Loading B 4032 --- Product Loading C 4033 --- Product Loading D 4034 --- Product Loading E 4035 --- Product Loading F 4036 --- Blend Loading 4037 --- BRC Loading #1 4048 --- BRC Loading #2 PLCAP – Product Loading CAP	DOES NOT APPLY: All materials loaded have vapor pressures < 1.5 psia.

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XI. Explanation for Exemption Status or Non-Applicability of a Source		
ID No.	Description	Requirement
E-01-94	4038 - Thermal Oxidizer	Waste Gas Disposal [LAC 33:III.2115]
		Control of Sulfur Dioxide Emissions [LAC 33:III.1503.C]
E-01-95 E-01-96	4039 - Cooling Tower No 1 4040 - Cooling Tower No 2	NESHAP Subpart Q National Emission Standards for HAPs for Industrial Cooling Towers [40 CFR 63.400]
E-01-02	4041 - Fugitive Emissions	NSPS Subpart VV for VOC Emissions from SOCMF Facilities. [40 CFR 60.480(a)(1)]
		NSPS Subpart VVa for VOC Emissions from SOCMF Facilities. [40 CFR 60.480a(a)(1)]
		NESHAP Subpart V for Equipment Leaks. [40 CFR 61.240]
		Notes
		DOES NOT APPLY: Source is required to be controlled by another federal or state regulation that reduces VOCs to a more stringent standard than what is required by LAC 33:III.2115.
		DOES NOT APPLY: Unit emits less than 5 TPY of Sulfur Dioxide.
		DOES NOT APPLY: The Unit 9 Cooling Towers do not use chromium based water treatment chemicals.
		DOES NOT APPLY: Unit 9 is not a SOCMF facility as it produces no chemicals from the list in 40 CFR 60.489.
		DOES NOT APPLY: Unit 9 is not a SOCMF facility as it produces no chemicals from the list in 40 CFR 60.489.
		DOES NOT APPLY: None of the equipment in Unit 9 is subject to a Part 61 subpart; therefore, per 61.240 Subpart V does not apply.

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XI. Explanation for Exemption Status or Non-Applicability of a Source			
ID No: Description		Requirement	Notes
EQF 102	Tank A	NSPS Subpart Kb – Standard of Performance for Volatile Organic Liquid Storage Vessels. [40 CFR 60.110b(b)]	DOES NOT APPLY: This regulation does not apply to tanks with capacities > 39,891 gals when storing liquids with a maximum true VOC vapor pressure of less than 0.5 psia (tank capacity is > 39,891 gals and the VOC vapor pressures of the liquid stored is < 0.5 psia).
		Storage of VOC Compounds: [LAC 33:III 2103.A]	DOES NOT APPLY: VOC vapor pressure less than 1.5 psia.
EQF 99	Tank C	Storage of VOC Compounds: [LAC 33:III 2103.A]	DOES NOT APPLY: VOC vapor pressure less than 1.5 psia.
EQF 103	Tank D	NSPS Subpart Kb – Standard of Performance for Volatile Organic Liquid Storage Vessels. [40 CFR 60.110b(b)]	DOES NOT APPLY: This regulation does not apply to tanks with capacities > 39,891 gals when storing liquids with a maximum true VOC vapor pressure of less than 0.5 psia (tank capacity is > 39,891 gals and the VOC vapor pressures of the liquid stored is < 0.5 psia).
			DOES NOT APPLY: Tank stores organic liquids that contain HAPs as impurities
			DOES NOT APPLY: VOC vapor pressure less than 1.5 psia.

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XL. Explanation for Exemption Status or Non-Applicability of a Source			
ID No.	Description	Requirement	Notes
EQ1105	HEAT-Heat Exchange System	<p>NESHAP Subpart FFFF, National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing; [40 CFR 63.2490]</p> <p>NESHAP Subpart F, National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry. [40 CFR 63.104(a)]</p>	<p>EXEMPT. As per Table 10 from 40 CFR 63 Subpart FFFF, "Comply with the requirements of §63.104 and the requirements referenced therein, except as specified in 40 CFR 63.2490."</p> <p>Heat exchange systems meet one or more of the criteria listed in 40 CFR 63.104(a)(1)-(6) and are exempt.</p>
ARI 9	Maintenance Wastewater	<p>NSPS Subpart YYY – Standards of Performance for Volatile Organic Compounds</p> <p>Emissions from Synthetic Organic Chemical Manufacturing Industry Wastewater [40 CFR 60.7070](proposed rule)</p>	<p>DOES NOT APPLY: Unit 9 does not produce any SOCM chemicals in Table 1 of this subpart as a primary product.</p>
		Control of Emissions of Organic Compounds – Standards for Industrial Wastewater [LAC 33:III.2153.B]	<p>DOES NOT APPLY: Applies to facilities located in ozone non-attainment areas. UCC is located in St Charles Parish, which is designated as attainment for ozone.</p>

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XI. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Description	Requirement
EQT 106	Reactors/Post Reactors	Compliance Assurance Monitoring [40 CFR Part 64.2(b)(1)(i)]
		DOES NOT APPLY: Vent streams are subject to an emission standard that was proposed by EPA after November 15, 1990 pursuant to section 111 or 112 of the Clean Air Act (i.e., NSPS or MACT). Therefore, The applicability exemption of 40 CFR 64.2(b)(1)(i) is met.
		NSPS Subpart RRR Standards of Performance for Volatile Organic Compound Emissions from Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes. [40 CFR 60.700(a)]
		DOES NOT APPLY: Unit 9 does not produce as a product, co-product, by-product or intermediate any chemical listed in 40 CFR 60.707.
		Waste Gas Disposal [LAC 33:III.2115]
		DOES NOT APPLY: Source is required to be controlled by another federal or state regulation that reduces VOCs to a more stringent standard than what is required by LAC 33:III.2115.

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XI. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Description	Requirement
LOI 107 LOI 725	Degasser #1 Degasser #2	Compliance Assurance Monitoring (CAM) [40 CFR Part 64]
		DOES NOT APPLY: Vent streams Degassers are subject to an emission standard for that was proposed by EPA after November 15, 1990 pursuant to section 111 or 112 of the Clean Air Act (i.e., NSPS or MACT). Therefore, the applicability exemption of 40 CFR 64.2(b)(1)(i) is met.
		DOES NOT APPLY: Unit 9 does not produce as a product, co-product, by-product, or intermediate any chemical listed in 40 CFR 60.667.
		DOES NOT APPLY: Source is required to be controlled by another federal or state regulation that reduces VOCs to a more stringent standard than what is required by LAC 33:III.2115.
		DOES NOT APPLY: This regulation does not apply to tanks with capacities < 19,815 gals (Emission Point D-192A has a capacity < 19,815 gals).
LOI 732	D-192A	NSPS Subpart Kb - Standards of Performance for Volatile Organic for Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. [40 CFR 60.110b(a)]
		Compliance Assurance Monitoring (CAM) [40 CFR Part 64]
		DOES NOT APPLY: Equipment does not meet all of the criteria specified in 40 CFR 64.2(a).

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XI. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Description	Requirement
EQT 724 EQT 723 EQT 722 EQT 721 EQT 077 EQT 078	4043 Tank Vent 43 4044 Tank Vent 44 4045 Tank Vent 45 4046 Tank Vent 46 4054 Tank Vent 54 4055 Tank Vent 55	NSPS Subpart Kb – Standard of Performance for Volatile Organic Liquid Storage Vessels. [40 CFR 60.110b(a)]
		Storage of VOC Compounds:[LAC 33:III 2103.A]
EQT 081	Process Wastewater	NESHAP Subpart FFFF, National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing. [40 CFR 63.2550(e)]
		DOES NOT APPLY: This regulation does not apply to tanks with capacities < 19,815 gals (Emission Points have capacities < 19,815 gals).
		DOES NOT APPLY: VOC vapor pressure is less than 1.5 psia.
		DOES NOT APPLY: Plant does not have any process wastewater streams.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

STATE-ONLY SPECIFIC CONDITIONS

TAFT / STAR MANUFACTURING COMPLEX – UNIT - 9

AGENCY INTEREST NO.: 2083

UNION CARBIDE CORPORATION

TAFT, ST. CHARLES PARISH, LOUISIANA

1. The number of each type of component required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided:
 - a. Changes in components involve routine maintenance, or are undertaken to address safety concerns, or involve small piping revisions with no associated emission increases except from the fugitive components themselves;
 - b. The changes do not involve any associated increase in production rate or capacity, or tie in of new or modified process equipment other than piping components;
 - c. Actual emissions following the changes will not exceed the emission limits contained in this permit; and
 - d. The components are promptly incorporated into any applicable leak detection and repair program.

40 CFR PART 70 SPECIFIC CONDITIONS

TAFT / STAR MANUFACTURING COMPLEX – UNIT - 9

AGENCY INTEREST NO.: 2083

UNION CARBIDE CORPORATION

TAFT, ST. CHARLES PARISH, LOUISIANA

1. Permittee shall comply with a streamlined equipment leaks monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the fugitive emission monitoring programs being streamlined, as indicated in the following table. Noncompliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the fugitive emissions program being streamlined.
 - a. Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (40 CFR 63 Subpart UU) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size of component available in any of the programs being streamlined.
 - b. Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters.
 - c. Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on September 30 and March 31, to cover the periods January 1 through June 30 and July 1 through December 31, respectively. The semiannual reports shall include any monitoring performed within the reporting period.

Unit or Plant Site	Programs Being Streamlined	Stream Applicability	Overall Most Stringent Program
Unit 9- Latex Plant 4041- Fugitive Emissions (FUG002)	40 CFR 63 Subpart UU (per Table 6 of 40 CFR Part 63 Subpart FFFF)	5% VOHAP	40 CFR 63 Subpart UU
	40 CFR 63 Subpart UU (per 40 CFR 63.2346(c))	5% VOHAP	
	LAC 33.III.2121 - VOC Control	10% VOC	

INVENTORIES

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20080018
 Permit Number: 2876-V2
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Unit 9						
ARE 0009	MW - Maintenance Wastewater					
EQT 0057	4001 - Tank Vent No. 1	12064 gallons	90000 gallons/hr	297619 bbl/yr	Polymer	8760 hr/yr
EQT 0058	4002 - Tank Vent No. 2	12064 gallons	90000 gallons/hr	297619 bbl/yr	Polymer	8760 hr/yr
EQT 0059	4003 - Tank Vent No. 3	12064 gallons	90000 gallons/hr	297619 bbl/yr	Polymer	8760 hr/yr
EQT 0060	4004 - Tank Vent No. 4	12064 gallons	90000 gallons/hr	297619 bbl/yr	Polymer	8760 hr/yr
EQT 0061	4005 - Tank Vent No. 5	12064 gallons	90000 gallons/hr	242857 bbl/yr	Polymer	8760 hr/yr
EQT 0062	4006 - Tank Vent No. 6	12064 gallons	90000 gallons/hr	242857 bbl/yr	Polymer	8760 hr/yr
EQT 0063	4007 - Tank Vent No. 7	12064 gallons	90000 gallons/hr	242857 bbl/yr	Polymer	8760 hr/yr
EQT 0064	4008 - Tank Vent No. 8	12064 gallons	90000 gallons/hr	242857 bbl/yr	Polymer	8760 hr/yr
EQT 0065	4009 - Tank Vent No. 9	30081 gallons	12000 gallons/hr	407143 bbl/yr	Polymer	8760 hr/yr
EQT 0074	4018 - Tank Vent No. 18	12064 gallons	90000 gallons/hr	297619 bbl/yr	Polymer	8760 hr/yr
EQT 0075	4019 - Tank Vent No. 19	12064 gallons	90000 gallons/hr	297619 bbl/yr	Polymer	8760 hr/yr
EQT 0076	4020 - Tank Vent No. 20	12064 gallons	90000 gallons/hr	242857 bbl/yr	Polymer	8760 hr/yr
EQT 0077	4021 - Tank Vent No. 21	12064 gallons	90000 gallons/hr	242857 bbl/yr	Polymer	8760 hr/yr
EQT 0080	4024 - Tank Vent No. 24	15221 gallons	9000 gallons/hr	9000 bbl/yr	Polymer	8760 hr/yr
EQT 0082	4026 - Tank Vent No. 26	15221 gallons	12000 gallons/hr	8167 bbl/yr	Monomer	8760 hr/yr
EQT 0084	4028 - Tank Vent No. 28	15221 gallons	12000 gallons/hr	2786 bbl/yr	Polymer	8760 hr/yr
EQT 0086	4030 - Product Loading A		8100 gallons/hr		Latex	8760 hr/yr
EQT 0087	4031 - Product Loading B		8100 gallons/hr		Latex	8760 hr/yr
EQT 0088	4032 - Product Loading C		8100 gallons/hr	8100 gallons/hr	Latex (Type A) 2.55 MM gals/yr; (Type B) 7.65 MM gals/yr	8760 hr/yr
EQT 0089	4033 - Product Loading D				Latex (Type A) 2.55 MM gals/yr; (Type B) 7.65 MM gals/yr	8760 hr/yr
EQT 0090	4034 - Product Loading E		8100 gallons/hr		Latex	8760 hr/yr
EQT 0091	4035 - Product Loading F		8100 gallons/hr		Latex (Type A) 2.55 MM gals/yr; (Type B) 7.65 MM gals/yr	8760 hr/yr
EQT 0092	4036 - Blend Loading		12000 gallons/hr		Latex	8760 hr/yr
EQT 0093	4037 - BRC Loading		12000 gallons/hr		Latex	8760 hr/yr
EQT 0094	4038 - Thermal Oxidizer		10 MM BTU/hr	10 MM BTU/hr		8760 hr/yr
EQT 0095	4039 - Cooling Tower No. 1		399990 gallons/hr			8760 hr/yr
EQT 0096	4040 - Cooling Tower No. 2		399999 gallons/hr			8760 hr/yr
EQT 0098	TB - Tank B				acrylonitrile	8760 hr/yr
EQT 0099	TC - Tank C				methyl methacrylate	8760 hr/yr
EQT 0100	Tank SL-A - Tank SL-A	470014 gallons			Vinyl Acetate	8760 hr/yr
EQT 0101	Tank SL-B - Tank SL-B	470014 gallons			Vinyl Acetate	8760 hr/yr
EQT 0102	TA - Tank A				Styrene	8760 hr/yr
EQT 0103	TD - Tank D				Ethylhexyl Acrylate	8760 hr/yr
EQT 0104	TE - Tank E				Morceryl	8760 hr/yr
EQT 0105	HES - Heat Exchange System					8760 hr/yr

INVENTORIES

AI ID: 2083 - Union Carbide Corp - St Charles Operations
Activity Number: PER20080018
Permit Number: 2876-V2
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Unit 9						
EQT 0106	RPR - Reactors / Post Reactors					8760 hr/yr
EQT 0107	D1 - Degasser # 1					8760 hr/yr
EQT 0108	VKOP - Vent Knock Out Pot					8760 hr/yr
EQT 0109	RCT - Reactor Charge Tanks					8760 hr/yr
EQT 0621	4048 - BRC Loading #2	12000 gallons/hr			Latex	8760 hr/yr
EQT 0721	4046 - Tank Vent No 46	550 gallons			Fungicide	8760 hr/yr
EQT 0722	4045 - Tank Vent No 45	550 gallons			Monomer	8760 hr/yr
EQT 0723	4044 - Tank Vent No 44	550 gallons			Monomer	8760 hr/yr
EQT 0724	4043 - Tank Vent No 43	550 gallons			Monomer	8760 hr/yr
EQT 0725	D2 - Degasser # 2					8760 hr/yr
EQT 0726	4049 - Tank Vent No. 49	30081 gallons	12000 gallons/hr		Polymer	8760 hr/yr
EQT 0727	4050 - Tank Vent No. 50	40025 gallons	12000 gallons/hr		Monomer	8760 hr/yr
EQT 0728	4051 - Tank Vent No 51	15221 gallons	12000 gallons/hr		Defoamer	8760 hr/yr
EQT 0732	D-192A - PI Tank	760 gallons			Propylenimine	8760 hr/yr
EQT 0733	D-110A - Acrylic Acid Tank	10242 gallons			Acrylic Acid	8760 hr/yr
EQT 0734	D-115A - MAA Tank	10242 gallons			Methacrylic Acid	8760 hr/yr
EQT 0735	4053 - Tank Vent No 53	30081 gallons	12000 gallons/hr		Polymer	8760 hr/yr
EQT 0978	3266 - E-28A SE Corner of Latex Block Sump	166911 gallons				8760 hr/yr
EQT 0979	3267 - E-28B SW Corner of Latex Block Sump	213119 gallons				8760 hr/yr
EQT 1077	4054 - Tank Vent No 54	550 gallons	550 gallons/hr			8760 hr/yr
EQT 1078	4055 - Tank Vent No 55	550 gallons	550 gallons/hr			8760 hr/yr
EQT 1080	UA - Unloading Activities					8760 hr/yr
EQT 1081	PW - Process Wastewater					8760 hr/yr
FUG 0002	4041 - Fugitive Emissions					8760 hr/yr

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Unit 9							
EQT 0057	4001 - Tank Vent No 1			5		30	167
EQT 0058	4002 - Tank Vent No 2			5		30	167
EQT 0059	4003 - Tank Vent No 3			5		30	167
EQT 0060	4004 - Tank Vent No 4			5		30	167
EQT 0061	4005 - Tank Vent No 5			5		30	167
EQT 0062	4006 - Tank Vent No 6			5		30	167
EQT 0063	4007 - Tank Vent No 7			5		30	167
EQT 0064	4008 - Tank Vent No 8			5		30	167

INVENTORIES

AI ID: 2083 - Union Carbide Corp - St Charles Operations
Activity Number: PER20080018
Permit Number: 2876-V2
Air - Title V Regular Permit Renewal

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Unit 9							
EQT 0065	4009 - Tank Vent No.9			.25		25	113
EQT 0074	4018 - Tank Vent No.18			.5		30	167
EQT 0075	4019 - Tank Vent No.19			.5		30	167
EQT 0076	4020 - Tank Vent No.20			.5		30	167
EQT 0077	4021 - Tank Vent No.21			.5		30	167
EQT 0080	4024 - Tank Vent No.24			.33		30	95
EQT 0082	4026 - Tank Vent No.26			.33		30	90
EQT 0084	4028 - Tank Vent No.28			.33		30	90
EQT 0086	4030 - Product Loading A						113
EQT 0087	4031 - Product Loading B						113
EQT 0088	4032 - Product Loading C						113
EQT 0089	4033 - Product Loading D						113
EQT 0090	4034 - Product Loading E						113
EQT 0091	4035 - Product Loading F						113
EQT 0092	4036 - Blend Loading						113
EQT 0093	4037 - BRC Loading						113
EQT 0094	4038 - Thermal Oxidizer	29.11	5487	2		30	1000
EQT 0621	4048 - BRC Loading #2						113
EQT 0726	4049 - Tank Vent No. 49			.25			113
EQT 0727	4050 - Tank Vent No. 50			.33			90
EQT 0728	4051 - Tank Vent No. 51			.33			113
EQT 0735	4053 - Tank Vent No. 53			.25			113

Relationships:

ID	Description	Relationship	ID	Description
EQT 0094	4038 - Thermal Oxidizer	Controls emissions from	EQT 0106	RPR - Reactors / Post Reactors
EQT 0094	4038 - Thermal Oxidizer	Controls emissions from	EQT 0107	D1 - Degasser # 1
EQT 0094	4038 - Thermal Oxidizer	Controls emissions from	EQT 0732	D-192A - PI Tank
EQT 0094	4038 - Thermal Oxidizer	Controls emissions from	EQT 0725	D2 - Degasser # 2
EQT 0094	4038 - Thermal Oxidizer	Controls emissions from	EQT 0108	VKOP - Vent Knock Out Pot

INVENTORIES

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20080018
 Permit Number: 2876-V2
 Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Group Type	Group Description
GRP 0046	Equipment Group	TVBL - Tanks with Vapor Balance Loading
GRP 0135	Equipment Group	BT CAP - Blend Tank CAP
GRP 0136	Equipment Group	PL CAP - Product Loading CAP
UNF 0010	Unit or Facility Wide	UCC - Unit 9

Group Membership:

ID	Description	Member of Groups
EOT 0065	4009 - Tank Vent No 9	GRP00000000135
EOT 0066	4030 - Product Loading A	GRP00000000136
EOT 0087	4031 - Product Loading B	GRP00000000136
EOT 0088	4032 - Product Loading C	GRP00000000136
EOT 0089	4033 - Product Loading D	GRP00000000136
EOT 0090	4034 - Product Loading E	GRP00000000136
EOT 0091	4035 - Product Loading F	GRP00000000136
EOT 0092	4036 - Blend Loading	GRP00000000136
EOT 0093	4037 - BRC Loading	GRP00000000136
EOT 0098	TB - Tank B	GRP00000000046
EOT 0099	TC - Tank C	GRP00000000046
EOT 0102	TA - Tank A	GRP00000000046
EOT 0103	TD - Tank D	GRP00000000046
EOT 0104	TE - Tank E	GRP00000000046
EOT 0621	4048 - BRC Loading #2	GRP00000000136
EOT 0726	4049 - Tank Vent No. 49	GRP00000000135
EOT 0735	4053 - Tank Vent No. 53	GRP00000000135

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0570	0570 Synthetic Resins Manufacture N E C (Rated Capacity)	240	MM lbs/yr

SIC Codes:

2821	Plastics materials and resins	UNF 010
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EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20080018

Permit Number: 2876-V2

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Unit 9															
EQT 0057 4001													0.01		0.03
EQT 0058 4002													0.01		0.03
EQT 0059 4003													0.01		0.03
EQT 0060 4004													0.01		0.03
EQT 0061 4005													0.01		0.04
EQT 0062 4006													0.01		0.04
EQT 0063 4007													0.002		0.01
EQT 0064 4008													0.002		0.01
EQT 0074 4018													0.01		0.03
EQT 0075 4019													0.01		0.03
EQT 0076 4020													0.002		0.01
EQT 0077 4021													0.002		0.01
EQT 0080 4024													0.003		0.01
EQT 0082 4026													0.001		<0.01
EQT 0084 4028													0.001		<0.01
EQT 0086 4030														0.07	
EQT 0087 4031														0.07	
EQT 0088 4032														0.07	
EQT 0089 4033														0.07	
EQT 0090 4034														0.07	
EQT 0091 4035														0.07	
EQT 0092 4036														0.10	
EQT 0093 4037														0.10	

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20080018

Permit Number: 2876-V2

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Unit 9															
EOT 0094 4039	0.87	0.87	3.79	1.03	1.03	4.51	0.08	0.08	0.34	0.01	0.01	0.03	0.10	0.11	0.45
EOT 0095 4039							0.12		0.51						
EOT 0096 4040							0.12		0.51						
EOT 0621 4048														0.10	
EOT 0721 4046													<0.001		<0.01
EOT 0722 4045													0.01		0.06
EOT 0723 4044													<0.001		<0.01
EOT 0724 4043													0.001		<0.01
EOT 0727 4050													0.001		0.01
EOT 0728 4051													<0.001		<0.01
EOT 0978 3266													0.01	0.01	0.05
EOT 0979 3267													0.003	0.003	0.01
EOT 1077 4054													0.003		0.01
EOT 1078 4055													<0.001		<0.01
FUG 0002 4041													0.19		0.85
GRP 0135 BT CAP													0.02		0.07
GRP 0136 PL CAP													0.10		0.42

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20080018

Permit Number: 2876-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0057 4001	Acrylic acid	<0.001		<0.01
	Ammonia	0.05		0.22
	Formaldehyde	<0.001		<0.01
	Methanol	<0.001		<0.01
	Vinyl acetate	0.01		0.03
EQT 0058 4002	Acrylic acid	<0.001		<0.01
	Ammonia	0.05		0.22
	Formaldehyde	<0.001		<0.01
	Methanol	<0.001		<0.01
	Vinyl acetate	0.01		0.03
EQT 0059 4003	Acrylic acid	<0.001		<0.01
	Ammonia	0.05		0.22
	Formaldehyde	<0.001		<0.01
	Methanol	<0.001		<0.01
	Vinyl acetate	0.01		0.03
EQT 0060 4004	Acrylic acid	<0.01		<0.01
	Ammonia	0.05		0.22
	Formaldehyde	<0.01		<0.01
	Methanol	<0.01		<0.01
	Vinyl acetate	0.01		0.03
EQT 0061 4005	Acrylamide	<0.001		<0.01
	Acrylic acid	<0.001		<0.01
	Acrylonitrile	<0.001		<0.01
	Ammonia	0.06		0.27
	Ethyl Acrylate	<0.001		<0.01
	Formaldehyde	<0.001		<0.01
	Methanol	<0.01		<0.01
	Methyl methacrylate	0.002		0.01
	Propylenimine	<0.001		<0.01
	Styrene	<0.001		<0.01
	Vinyl acetate	0.01		0.03
EQT 0062 4006	Acrylamide	<0.001		<0.01
	Acrylic acid	<0.001		<0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20080018

Permit Number: 2876-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0062 4006	Acrylonitrile	<0.001		<0.01
	Ammonia	0.06		0.27
	Ethyl Acrylate	<0.001		<0.01
	Formaldehyde	<0.001		<0.01
	Methanol	<0.001		<0.01
	Methyl methacrylate	0.002		0.01
	Propylenimine	<0.001		<0.01
	Styrene	<0.001		<0.01
	Vinyl acetate	0.01		0.03
EQT 0063 4007	Acrylamide	<0.001		<0.01
	Acrylic acid	<0.001		<0.01
	Acrylonitrile	<0.001		<0.01
	Ammonia	0.06		0.27
	Ethyl Acrylate	<0.001		<0.01
	Formaldehyde	<0.001		<0.01
	Hydroquinone	<0.001		<0.01
	Methanol	<0.001		<0.01
	Methyl methacrylate	0.002		0.01
	Styrene	<0.001		<0.01
EQT 0064 4008	Acrylamide	<0.001		<0.01
	Acrylic acid	<0.001		<0.01
	Acrylonitrile	<0.001		<0.01
	Ammonia	0.06		0.27
	Ethyl Acrylate	<0.001		<0.01
	Formaldehyde	<0.001		<0.01
	Hydroquinone	<0.001		<0.01
	Methanol	<0.001		<0.01
	Methyl methacrylate	0.002		0.01
	Styrene	<0.001		<0.01
EQT 0074 4018	Acrylic acid	<0.001		<0.01
	Ammonia	0.05		0.22
	Formaldehyde	<0.001		<0.01
	Methanol	<0.001		<0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20080018

Permit Number: 2876-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0074 4018	Vinyl acetate	0.01		0.03
EQT 0075 4019	Acrylic acid	<0.001		<0.01
	Ammonia	0.05		0.22
	Formaldehyde	<0.001		<0.01
	Methanol	<0.001		<0.01
	Vinyl acetate	0.01		0.03
EQT 0076 4020	Acrylamide	<0.001		<0.01
	Acrylic acid	<0.001		<0.01
	Acrylonitrile	<0.001		<0.01
	Ammonia	0.06		0.27
	Ethyl Acrylate	<0.001		<0.01
	Formaldehyde	<0.001		<0.01
	Hydroquinone	<0.001		<0.01
	Methanol	<0.001		<0.01
	Methyl methacrylate	0.002		0.01
	Styrene	<0.001		<0.01
EQT 0077 4021	Acrylamide	<0.001		<0.01
	Acrylic acid	<0.001		<0.01
	Acrylonitrile	<0.001		<0.01
	Ammonia	0.06		0.27
	Ethyl Acrylate	<0.001		<0.01
	Formaldehyde	<0.001		<0.01
	Hydroquinone	<0.001		<0.01
	Methanol	<0.001		<0.01
	Methyl methacrylate	0.002		0.01
	Styrene	<0.001		<0.01
EQT 0080 4024	Acrylamide	<0.001		<0.01
	Acrylic acid	<0.001		<0.01
	Acrylonitrile	<0.001		<0.01
	Ammonia	0.02		0.10
	Ethyl Acrylate	<0.001		<0.01
	Formaldehyde	<0.001		<0.01
	Methanol	<0.001		<0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20080018

Permit Number: 2876-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0080 4074	Methyl methacrylate	<0.001		<0.01
	Propylenimine	<0.001		<0.01
	Styrene	<0.001		<0.01
	Vinyl acetate	<0.001		<0.01
EQT 0084 4028	Acetaldehyde	<0.001		<0.01
	Formaldehyde	<0.001		<0.01
	Styrene	0.001		<0.01
EQT 0086 4030	Acrylamide		<0.001	
	Acrylic acid		<0.001	
	Acrylonitrile		<0.001	
	Ammonia		3.31	
	Ethyl Acrylate		0.001	
	Formaldehyde		<0.001	
	Hydroquinone		<0.001	
	Methanol		<0.001	
	Methyl methacrylate		0.01	
	Propylenimine		<0.001	
	Styrene		0.001	
	Vinyl acetate		0.05	
EQT 0087 4031	Acrylamide		<0.001	
	Acrylic acid		<0.001	
	Acrylonitrile		<0.001	
	Ammonia		3.31	
	Ethyl Acrylate		0.001	
	Formaldehyde		<0.001	
	Hydroquinone		<0.001	
	Methanol		<0.001	
	Methyl methacrylate		0.01	
	Propylenimine		<0.001	
	Styrene		0.001	
	Vinyl acetate		0.05	
EQT 0088 4032	Acrylamide		<0.001	
	Acrylic acid		<0.001	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20080018

Permit Number: 2876-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0088 4032	Acrylonitrile		<0.001	
	Ammonia		3.31	
	Ethyl Acrylate		0.001	
	Formaldehyde		<0.001	
	Hydroquinone		0.01	
	Methanol		<0.001	
	Methyl methacrylate		0.01	
	Propylenimine		<0.001	
	Styrene		0.001	
	Vinyl acetate		0.05	
EQT 0089 4033	Acrylamide		<0.001	
	Acrylic acid		<0.001	
	Acrylonitrile		<0.001	
	Ammonia		3.31	
	Ethyl Acrylate		0.001	
	Formaldehyde		<0.001	
	Hydroquinone		<0.001	
	Methanol		<0.001	
	Methyl methacrylate		0.01	
	Propylenimine		<0.001	
	Styrene		0.001	
	Vinyl acetate		0.05	
EQT 0090 4034	Acrylamide		<0.001	
	Acrylic acid		<0.001	
	Acrylonitrile		<0.001	
	Ammonia		3.31	
	Ethyl Acrylate		0.001	
	Formaldehyde		<0.001	
	Hydroquinone		<0.001	
	Methanol		<0.001	
	Methyl methacrylate		0.01	
	Propylenimine		<0.001	
	Styrene		0.001	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20080018

Permit Number: 2876-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EOT 0090 4034	Vinyl acetate		0.05	
EOT 0091 4035	Acrylamide		<0.001	
	Acrylic acid		<0.001	
	Acrylonitrile		<0.001	
	Ammonia		3.31	
	Ethyl Acrylate		0.001	
	Formaldehyde		<0.001	
	Hydroquinone		<0.001	
	Methanol		<0.001	
	Methyl methacrylate		0.01	
	Propylenimine		<0.001	
	Styrene		0.001	
	Vinyl acetate		0.05	
EOT 0092 4036	Acrylamide		<0.001	
	Acrylic acid		<0.001	
	Acrylonitrile		<0.001	
	Ammonia		4.90	
	Ethyl Acrylate		0.001	
	Formaldehyde		<0.001	
	Hydroquinone		<0.001	
	Methanol		0.001	
	Methyl methacrylate		0.02	
	Propylenimine		<0.001	
	Styrene		0.001	
	Vinyl acetate		0.07	
EOT 0093 4037	Acrylamide		<0.001	
	Acrylic acid		<0.001	
	Acrylonitrile		<0.001	
	Ammonia		4.90	
	Ethyl Acrylate		0.001	
	Formaldehyde		<0.001	
	Hydroquinone		<0.001	
	Methanol		0.001	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20080018

Permit Number: 2876-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0093 4037	Methyl methacrylate		0.02	
	Propylenimine		<0.001	
	Styrene		0.001	
	Vinyl acetate		0.07	
EQT 0094 4038	Acrylamide	<0.001	<0.001	<0.01
	Acrylic acid	<0.001	<0.001	<0.01
	Acrylonitrile	<0.001	<0.001	<0.01
	Ammonia	<0.001	<0.001	<0.01
	Ethyl Acrylate	0.001	0.002	<0.01
	Formaldehyde	<0.001	<0.001	<0.01
	Methanol	<0.001	<0.001	<0.01
	Methyl methacrylate	<0.001	0.001	<0.01
	Propylenimine	<0.001	<0.001	<0.01
	Styrene	<0.001	0.001	<0.01
	Vinyl acetate	0.003	0.007	0.01
EQT 0621 4048	Acrylamide		<0.001	
	Acrylic acid		<0.001	
	Acrylonitrile		<0.001	
	Ammonia		4.90	
	Ethyl Acrylate		0.001	
	Formaldehyde		<0.001	
	Hydroquinone		<0.001	
	Methanol		0.001	
	Methyl methacrylate		0.02	
	Propylenimine		<0.001	
	Styrene		0.002	
	Vinyl acetate		0.07	
EQT 0721 4046	Formaldehyde	<0.001		<0.01
EQT 0722 4045	Methyl methacrylate	0.01		0.06
EQT 0723 4044	Acrylamide	<0.001		<0.01
	Acrylic acid	<0.001		<0.01
EQT 0724 4043	Acrylamide	<0.001		<0.01
	Formaldehyde	<0.001		<0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20080018

Permit Number: 2876-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0978 3266	Acetaldehyde	0.01	0.01	0.03
	Ammonia	0.01	0.01	0.04
	Formaldehyde	0.002	0.002	0.01
	Methyl chloride	0.001	0.001	<0.01
	Vinyl acetate	0.002	0.002	0.01
EQT 0979 3267	Acetaldehyde	0.002	0.002	0.01
	Ammonia	0.01	0.01	0.03
	Formaldehyde	0.001	0.001	<0.01
EQT 1077 4054	Methanol	0.001		<0.01
EQT 1078 4055	Acrylic acid	<0.001		<0.01
FUG 0002 4041	1,4-Dioxane	<0.001	<0.001	<0.01
	Acetaldehyde	<0.001	<0.001	<0.01
	Acrylamide	0.001	0.001	0.01
	Acrylic acid	0.01	0.01	0.05
	Acrylonitrile	0.01	0.01	0.05
	Ammonia	0.003	0.003	0.01
	Ethyl Acrylate	0.005	0.005	0.02
	Ethylene oxide	<0.001	<0.001	<0.01
	Formaldehyde	<0.001	<0.001	<0.01
	Hydroquinone	<0.001	<0.001	<0.01
	Methanol	<0.001	<0.001	<0.01
	Methyl methacrylate	0.02	0.02	0.08
	Propylenimine	0.01	0.01	0.03
	Styrene	0.01	0.01	0.05
	Vinyl acetate	0.01	0.01	0.06
GRP 0135 BT CAP	Acrylamide	<0.001		<0.01
	Acrylic acid	<0.001		<0.01
	Acrylonitrile	<0.001		<0.01
	Ammonia	0.81		3.57
	Ethyl Acrylate	<0.001		<0.01
	Formaldehyde	<0.001		<0.01
	Methanol	<0.001		<0.01
	Methyl methacrylate	0.003		0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20080018

Permit Number: 2876-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
GRP 0135 BT CAP	Propylenimine	<0.001		<0.01
	Styrene	<0.001		<0.01
	Vinyl acetate	0.01		0.05
GRP 0136 PL CAP	Acrylamide	<0.001		<0.01
	Acrylic acid	<0.001		<0.01
	Acrylonitrile	<0.001		<0.01
	Ammonia	1.98		8.68
	Ethyl Acrylate	0.001		<0.01
	Formaldehyde	<0.001		<0.01
	Hydroquinone	<0.001		<0.01
	Methanol	0.001		<0.01
	Methyl methacrylate	0.02		0.07
	Propylenimine	<0.001		<0.01
	Styrene	0.002		0.01
	Vinyl acetate	0.07		0.31
UNF 0010 UCC	1,4-Dioxane			<0.01
	Acetaldehyde			0.04
	Acrylamide			0.01
	Acrylic acid			0.06
	Acrylonitrile			0.05
	Ammonia			15.37
	Ethyl Acrylate			0.03
	Ethylene oxide			<0.01
	Formaldehyde			0.01
	Hydroquinone			<0.01
	Methanol			0.01
	Methyl methacrylate			0.28
	Propylenimine			0.03
	Styrene			0.06
	Vinyl acetate			0.69

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20080018

Permit Number: 2876-V2

Air - Title V Regular Permit Renewal

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20080018

Permit Number: 2876-V2

Air - Title V Regular Permit Renewal

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- 1 [40 CFR 60.] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
- 2 [40 CFR 61.145(b)(1)] Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]
- 3 [40 CFR 61.148] Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.
- 4 [40 CFR 61.342(b)] Comply with the requirements of 40 CFR 61.342(c) through (h) no later than 90 days following the effective date, unless a waiver of compliance has been obtained under 40 CFR 61.11, or by the initial startup for a new source with an initial startup after the effective date. Subpart FF. [40 CFR 61.342(b)]
- 5 [40 CFR 61.342(c)(1)(i)] Waste streams containing benzene: Remove or destroy the benzene contained in the waste using a treatment process or wastewater treatment system that complies with the standards specified in 40 CFR 61.348. Subpart FF. [40 CFR 61.342(c)(1)(i)]
- 6 [40 CFR 61.355] Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
- 7 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 8 [40 CFR 61.357(d)(2)] Submit report: Due annually, beginning on the date that equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit updates to the information listed in 40 CFR 61.357(a)(1) through (a)(3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart FF. [40 CFR 61.357(d)(2)]
- 9 [40 CFR 61.357(d)(6)] Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]
- 10 [40 CFR 61.357(d)(7)] Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]
- 11 [40 CFR 61.357(d)(8)] Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]
- 12 [40 CFR 61.] All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- 13 [40 CFR 63.7881(a)] When permittee conducts a site remediation, as defined in 40 CFR 63.7957, permittee shall comply with all applicable requirements of this subpart unless the site remediation is exempted under 40 CFR 7881(b) or (c). Subpart GGGG. [40 CFR 63.7881(a)]
- 14 [40 CFR 63.] All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in all the applicable tables.
- 15 [40 CFR 68.15(a)] Develop a management system to oversee the implementation of the risk management program elements. [40 CFR 68.15(a)]
- 16 [40 CFR 68.15(b)] Assign a qualified person or position that has the overall responsibility for the development, implementation, and integration of the risk management program elements. [40 CFR 68.15(b)]

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- 17 [40 CFR 68.15(c)] Define the lines of authority through an organization chart or similar document when responsibility for implementing individual requirements of 40 CFR 68 is assigned to persons other than the person identified under 68.15(b). [40 CFR 68.15(c)]
- 18 [40 CFR 68.15(c)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the names or positions of the people, other than the person identified under 68.15(b), who are assigned responsibility for implementing individual requirements of 40 CFR 68. [40 CFR 68.15(c)]
- 19 [40 CFR 68.150] Submit Risk Management Plan (RMP): Due no later than June 21, 1999, or three years after the date on which a regulated substance is first listed under 68.130, or the date on which a regulated substance is first present above a threshold quantity in a process. Submit in a method and format to a central point as specified by EPA prior to June 21, 1999.
- 20 [40 CFR 68.155] Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g).
- 21 [40 CFR 68.160] Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13).
- 22 [40 CFR 68.165] Submit in the RMP information the release scenarios specified in 68.165(a)(2). Include the data listed in 68.165(b)(1) through (13).
- 23 [40 CFR 68.168] Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a).
- 24 [40 CFR 68.175] Provide in the RMP the information indicated in 68.175(b) through (p).
- 25 [40 CFR 68.180] Provide in the RMP the emergency response information listed in 68.180(a) through (c).
- 26 [40 CFR 68.185(b)] Submit in the RMP a single certification that, to the best of the signer's knowledge, information, and belief formed after reasonable inquiry, the information submitted is true, accurate, and complete. [40 CFR 68.185(b)]
- 27 [40 CFR 68.190(c)] Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
- 28 [40 CFR 68.190] Review and update the RMP as specified in 68.190(b) and submit it in a method and format to a central point specified by EPA prior to June 21, 1999.
- 29 [40 CFR 68.200] Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided.
- 30 [40 CFR 68.22] Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences.
- 31 [40 CFR 68.25] Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h).
- 32 [40 CFR 68.28] Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (c).
- 33 [40 CFR 68.30] Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 34 [40 CFR 68.33] List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 35 [40 CFR 68.36(b)] Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]
- 36 [40 CFR 68.36] Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more.

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- 37 [40 CFR 68.39] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 68.39(a) through (e) as applicable on the offsite consequence analyses.
- 38 [40 CFR 68.42] Include in the five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. Include the information specified in 68.42(b)(1) through (10) for each accidental release.
- 39 [40 CFR 68.65(a)] Compile written process safety information, which includes information pertaining to the hazards of the regulated substances used or produced by the process, information pertaining to the technology of the process, and information pertaining to the equipment in the process, before conducting any process hazard analysis required by 40 CFR 68. [40 CFR 68.65(a)]
- 40 [40 CFR 68.65(d)(2)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that equipment complies with recognized and generally accepted good engineering practices. [40 CFR 68.65(d)(2)]
- 41 [40 CFR 68.65(d)(3)] Determine that existing equipment, designed and constructed in accordance with codes, standards, or practices that are no longer in general use, is designed, maintained, inspected, tested, and operating in a safe manner. [40 CFR 68.65(d)(3)]
- 42 [40 CFR 68.65(d)(3)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that existing equipment, designed and constructed in accordance with codes, standards, or practices that are no longer in general use, is designed, maintained, inspected, tested, and operating in a safe manner. [40 CFR 68.65(d)(3)]
- 43 [40 CFR 68.67(a)] Determine the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- 44 [40 CFR 68.67(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- 45 [40 CFR 68.67(b)] Use one or more of the methodologies in Sec. 68.67(b)(1) through (b)(7) to determine and evaluate the hazards of the process being analyzed. [40 CFR 68.67(b)]
- 46 [40 CFR 68.67(d)] Use a team with expertise in engineering and process operations to perform the process hazard analysis. Include at least one employee who has experience and knowledge specific to the process being evaluated, and at least one employee who is knowledgeable in the specific process hazard analysis methodology being used. [40 CFR 68.67(d)]
- 47 [40 CFR 68.67(e)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the resolution of the recommendations of the team performing the process hazard analysis, and what actions are to be taken. [40 CFR 68.67(e)]
- 48 [40 CFR 68.67(e)] Establish a system to promptly address the team's findings and recommendations; assure that the recommendations are resolved in a timely manner and that the resolution is documented; document what actions are to be taken; complete actions as soon as possible; develop a written schedule of when these actions are to be completed; communicate the actions to operating, maintenance and other employees whose work assignments are in the process and who may be affected by the recommendations or actions. [40 CFR 68.67(e)]
- 49 [40 CFR 68.67(f)] Update and revalidate the process hazard analysis at least every five years after the completion of the initial process hazard analysis, to assure that the process hazard analysis is consistent with the current process. Use a team that meets the requirements in Sec. 68.67(d). [40 CFR 68.67(f)]
- 50 [40 CFR 68.67(g)] Retain process hazards analyses and updates or revalidations for each process covered by this section, as well as the documented resolution of recommendations described in Sec. 68.67(e), for the life of the process. [40 CFR 68.67(g)]

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- 51 [40 CFR 68.69(a)] Develop and implement written operating procedures that provide clear instructions for safely conducting activities involved in each covered process consistent with the process safety information. Address steps for each operating phase, operating limits, safety and health considerations, and safety systems and their functions in the procedures. [40 CFR 68.69(a)]
- 52 [40 CFR 68.69(b)] Make operating procedures readily accessible to employees who work in or maintain a process. [40 CFR 68.69(b)]
- 53 [40 CFR 68.69(c)] Review operating procedures as often as necessary to assure that they reflect current operating practice, including changes that result from changes in process chemicals, technology, and equipment, and changes to stationary sources. Certify annually that these operating procedures are current and accurate. [40 CFR 68.69(c)]
- 54 [40 CFR 68.69(d)] Develop and implement safe work practices to provide for the control of hazards during specific operations. [40 CFR 68.69(d)]
- 55 [40 CFR 68.71(a)(1)] Train each employee presently involved in operating a process, and each employee before being involved in operating a newly assigned process, in an overview of the process and in the operating procedures as specified in Sec. 68.69. Emphasize the specific safety and health hazards, emergency operations including shutdown, and safe work practices applicable to the employee's job tasks. [40 CFR 68.71(a)(1)]
- 56 [40 CFR 68.71(b)] Provide refresher training at least every three years, and more often if necessary, to each employee involved in operating a process to assure that the employee understands and adheres to the current operating procedures of the process. [40 CFR 68.71(b)]
- 57 [40 CFR 68.71(c)] Ascertain that each employee involved in operating a process has received and understood the training required by Sec. 68.71. [40 CFR 68.71(c)]
- 58 [40 CFR 68.71(c)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Prepare a record which contains the identity of the employee, the date of training required by 40 CFR 68.71, and the means used to verify that the employee understood the training. [40 CFR 68.71(c)]
- 59 [40 CFR 68.73(b)] Establish and implement written procedures to maintain the ongoing integrity of process equipment listed in Sec. 68.73(a). [40 CFR 68.73(b)]
- 60 [40 CFR 68.73(c)] Train each employee involved in maintaining the ongoing integrity of process equipment in an overview of that process and its hazards and in the procedures applicable to the employee's job tasks to assure that the employee can perform the job tasks in a safe manner. [40 CFR 68.73(c)]
- 61 [40 CFR 68.73(d)(4)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document each inspection and test that has been performed on process equipment. Maintain records of the information specified in Sec. 68.73(d)(4). [40 CFR 68.73(d)(4)]
- 62 [40 CFR 68.73(d)] Perform inspections and tests following recognized and generally accepted good engineering practices on process equipment listed in 40 CFR 68.73(a). Make the frequency of inspections and tests consistent with applicable manufacturer's recommendations and good engineering practices, and more frequently if determined to be necessary by prior operating experience. [40 CFR 68.73(d)]
- 63 [40 CFR 68.73(e)] Correct deficiencies in equipment that are outside acceptable limits before further use or in a safe and timely manner when necessary means are taken to assure safe operation. [40 CFR 68.73(e)]
- 64 [40 CFR 68.73(f)] Assure that equipment as it is fabricated is suitable for the process application for which it will be used, in the construction of new plants and equipment. Perform appropriate checks and inspections to assure that equipment is installed properly and consistent with design specifications and the manufacturer's instructions. Assure that maintenance materials, spare parts and equipment are suitable for the process application for which they will be used. [40 CFR 68.73(f)]
- 65 [40 CFR 68.75(c)] Inform employees involved in operating a process, and maintenance and contract employees whose job tasks will be affected, of a change in the process and train them in the change, prior to start-up of the process or affected part of the process. [40 CFR 68.75(c)]
- 66 [40 CFR 68.75(d)] Update the process safety information required by Sec. 68.65 if a change covered by 68.75 results in a change in the process safety information [40 CFR 68.75(d)]

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- 67 [40 CFR 68.75(e)] Update the operating procedures or practices required by Sec. 68.69 if a change covered by 68.75 results in a change in the operating procedures or practices. [40 CFR 68.75(e)]
- 68 [40 CFR 68.75] Establish and implement written procedures to manage changes to process chemicals, technology, equipment, and procedures; and, changes to stationary sources that affect a covered process. Assure that the considerations specified in Sec. 68.75(b)(1) through (b)(5) are addressed prior to any change.
- 69 [40 CFR 68.77] Perform a pre-startup safety review for new stationary sources and for modified stationary sources when the modification is significant enough to require a change in the process safety information. Safety review must confirm the information specified in Sec. 68.77(b)(1) through (b)(4) prior to the introduction of regulated substances to a process.
- 70 [40 CFR 68.79(c)] Develop a report of the findings of the compliance audit required by 40 CFR 68.79(a). [40 CFR 68.79(c)]
- 71 [40 CFR 68.79(d)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the appropriate response to each of the findings of the compliance audit, and document that deficiencies have been corrected. [40 CFR 68.79(d)]
- 72 [40 CFR 68.79(d)] Determine an appropriate response to each of the findings of the compliance audit. [40 CFR 68.79(d)]
- 73 [40 CFR 68.79(e)] Retain the two (2) most recent compliance audit reports. [40 CFR 68.79(e)]
- 74 [40 CFR 68.79] Conduct compliance audit: Due at least every three years. Certify compliance with the provisions of the prevention program to verify that procedures and practices developed under 40 CFR 68 are adequate and are being followed. Conduct compliance audit by at least one person knowledgeable in the process.
- 75 [40 CFR 68.81(c)] Establish an incident investigation team consisting of at least one person knowledgeable in the process involved, including a contract employee if the incident involved work of the contractor, and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident. [40 CFR 68.81(c)]
- 76 [40 CFR 68.81(e)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document resolutions and corrective actions of the incident report findings and recommendations. [40 CFR 68.81(e)]
- 77 [40 CFR 68.81(e)] Establish a system to promptly address and resolve the incident report findings and recommendations. [40 CFR 68.81(e)]
- 78 [40 CFR 68.81] Initiate incident investigation: Due as promptly as possible, but not later than 48 hours following each incident which resulted in, or could reasonably have resulted in a catastrophic release of a regulated substance.
- 79 [40 CFR 68.81] Prepare a report at the conclusion of the incident investigation which includes, at a minimum, the information specified in 40 CFR 68.81(d)(1) through (5). Review the report with all affected personnel whose job tasks are relevant to the incident findings including contract employees where applicable. Retain the incident investigation reports for five years.
- 80 [40 CFR 68.83(a)] Develop a written plan of action regarding the implementation of the employee participation required by 40 CFR 68. [40 CFR 68.83(a)]
- 81 [40 CFR 68.83(b)] Consult with employees and their representatives on the conduct and development of process hazards analyses and on the development of the other elements of process safety management. [40 CFR 68.83(b)]
- 82 [40 CFR 68.83(c)] Provide to employees and their representatives access to process hazard analyses and to all other information required to be developed under 40 CFR 68. [40 CFR 68.83(c)]
- 83 [40 CFR 68.85] Issue a hot work permit for hot work operations conducted on or near a covered process. Document in the permit that the fire prevention and protection requirements in 29 CFR 1910.252(a) have been implemented prior to beginning the hot work operations; indicate the date(s) authorized for hot work; and identify the object on which hot work is to be performed. Keep permit on file until completion of the hot work operations.

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84	[40 CFR 68.87(b)(1)]	Obtain and evaluate information regarding the contract owner or operator's safety performance and programs, when selecting a contractor. [40 CFR 68.87(b)(1)]
85	[40 CFR 68.87(b)(2)]	Inform contract owner or operator of the known potential fire, explosion, or toxic release hazards related to the contractor's work and the process. [40 CFR 68.87(b)(2)]
86	[40 CFR 68.87(b)(3)]	Explain to the contract owner or operator the applicable provisions of 40 CFR 68 Subpart E. [40 CFR 68.87(b)(3)]
87	[40 CFR 68.87(b)(4)]	Develop and implement safe work practices consistent with Sec. 68.69(d), to control the entrance, presence, and exit of the contract owner or operator and contract employees in covered process areas. [40 CFR 68.87(b)(4)]
88	[40 CFR 68.87(b)(5)]	Periodically evaluate the performance of the contract owner or operator in fulfilling their obligations as specified in 40 CFR 68.87(c). [40 CFR 68.87(b)(5)]
89	[40 CFR 68.95(a)]	Develop and implement an emergency response program for the purpose of protecting public health and the environment. Include in the program the elements listed in 40 CFR 68.95(a)(1) through (4). [40 CFR 68.95(a)]
90	[40 CFR 68.95(c)]	Coordinate the emergency response plan developed under 68.95(a)(1) with the community emergency response plan developed under 42 U.S.C. 11003. Upon request of the local emergency planning committee or emergency response officials, promptly provide information necessary for developing and implementing the community emergency response plan. [40 CFR 68.95(c)]
91	[40 CFR 82 Subpart F]	Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
92	[LAC 33:III.1103]	Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.1111 or intensify an existing traffic hazard condition are prohibited.
93	[LAC 33:III.1109 B]	Outdoor burning of waste material or other combustible material is prohibited.
94	[LAC 33:III.1303 B]	Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
95	[LAC 33:III.1305]	Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
96	[LAC 33:III.2113 A]	Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
97	[LAC 33:III.2119]	Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
98	[LAC 33:III.2901 D]	Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
99	[LAC 33:III.2901 F]	If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
100	[LAC 33:III.5105.A.1]	Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
101	[LAC 33:III.5105.A.2]	Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B.

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- 102 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 103 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- 104 [LAC 33:III.5107.A.2] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- 105 [LAC 33:III.5107.A] Submit Annual Emissions Report: Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 106 [LAC 33:III.5107.B.1] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 107 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923.
- 108 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931. Submit notification in the manner provided in LAC 33:I.3923.
- 109 [LAC 33:III.5107.B.4] Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.
- 110 [LAC 33:III.5107.B.5] Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 111 [LAC 33:III.5109.C] Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.
- 112 [LAC 33:III.5113.A.1] Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.

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- 113 [LAC 33:III.5113.A.2] Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
- 114 [LAC 33:III.5151.F.1.f] An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.
- 115 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.
- 116 [LAC 33:III.5609.A.2.b] Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.
- 117 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
- 118 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
- 119 [LAC 33:III.5901.A] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- 120 [LAC 33:III.5907] Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- 121 [LAC 33:III.5911.C] Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.
- 122 [LAC 33:III.919.D] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.
- 123 [LAC 33:III.927] Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:I Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:I.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases.

ARE 0009 MW - Maintenance Wastewater

- 124 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 125 [40 CFR 63.105(e)] Maintenance wastewater: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the information required by 40 CFR 63.105(b) and (c) as part of the start-up, shut-down, and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(e)]
- 126 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F

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ARE 0009 MW - Maintenance Wastewater

- 127 [40 CFR 63.2485(a)] Comply with the requirements in 40 CFR 63.105 and the requirements referenced therein, except as specified in 40 CFR 63.2485. Subpart FFFF. [40 CFR 63.2485(a)]
- 128 [40 CFR 63.2485(j)] Determine the annual average concentration and annual average flowrate for wastewater streams for each MCPU. Subpart FFFF. [40 CFR 63.2485(j)]
- 129 [40 CFR 63.2525] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- 130 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 131 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with NESHAP Subpart FFFF, as applicable, determined as MACT.

EQT 0057 4001 - Tank Vent No. 1

- 132 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 133 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

EQT 0058 4002 - Tank Vent No. 2

- 134 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 135 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

EQT 0059 4003 - Tank Vent No. 3

- 136 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 137 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

EQT 0060 4004 - Tank Vent No. 4

- 138 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 139 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

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EQT 0061 4005 - Tank Vent No.5

- 140 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 141 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

EQT 0062 4006 - Tank Vent No.6

- 142 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 143 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

EQT 0063 4007 - Tank Vent No.7

- 144 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 145 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

EQT 0064 4008 - Tank Vent No.8

- 146 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 147 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

EQT 0065 4009 - Tank Vent No.9

- 148 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 149 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

EQT 0074 4018 - Tank Vent No.18

- 150 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

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EQT 0074 4018 - Tank Vent No.18

- 151 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

EQT 0075 4019 - Tank Vent No.19

- 152 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 153 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

EQT 0076 4020 - Tank Vent No.20

- 154 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 155 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

EQT 0077 4021 - Tank Vent No.21

- 156 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 157 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

EQT 0080 4024 - Tank Vent No.24

- 158 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 159 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

EQT 0084 4028 - Tank Vent No.28

- 160 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 161 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

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EQT 0086 4030 - Product Loading A

- 162 [40 CFR 63.2475] Group 2 transfer rack as defined in 40 CFR 63.2550.
Loading racks are not subject to controls standards because the organic HAP loaded has a rack weighted partial vapor pressure less than 1.5 psia.
Comply with all applicable requirements for transfer racks as specified in 40 CFR 63.2475
- 163 [40 CFR 63.2520(a)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2520(a), 40 CFR 63.2525(a-k)]
- 164 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Compliance with NESHAP Subpart FFFF, as applicable, determined as MACT.

EQT 0087 4031 - Product Loading B

- 165 [40 CFR 63.2475] Group 2 transfer rack as defined in 40 CFR 63.2550.
Loading racks are not subject to controls standards because the organic HAP loaded has a rack weighted partial vapor pressure less than 1.5 psia.
Comply with all applicable requirements for transfer racks as specified in 40 CFR 63.2475.
- 166 [40 CFR 63.2520(a)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2520(a), 40 CFR 63.2525(a-k)]
- 167 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Compliance with NESHAP Subpart FFFF, as applicable, determined as MACT.

EQT 0088 4032 - Product Loading C

- 168 [40 CFR 63.2475] Group 2 transfer rack as defined in 40 CFR 63.2550.
Loading racks are not subject to controls standards because the organic HAP loaded has a rack weighted partial vapor pressure less than 1.5 psia.
Comply with all applicable requirements for transfer racks as specified in 40 CFR 63.2475.
- 169 [40 CFR 63.2520(a)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2520(a), 40 CFR 63.2525(a-k)]
- 170 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Compliance with NESHAP Subpart FFFF, as applicable, determined as MACT.

EQT 0089 4033 - Product Loading D

- 171 [40 CFR 63.2475] Group 2 transfer rack as defined in 40 CFR 63.2550.
Loading racks are not subject to controls standards because the organic HAP loaded has a rack weighted partial vapor pressure less than 1.5 psia.
Comply with all applicable requirements for transfer racks as specified in 40 CFR 63.2475.
- 172 [40 CFR 63.2520(a)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2520(a), 40 CFR 63.2525(a-k)]
- 173 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Compliance with NESHAP Subpart FFFF, as applicable, determined as MACT.

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EQT 0090 4034 - Product Loading E

- 174 [40 CFR 63.2475] Group 2 transfer rack as defined in 40 CFR 63.2550.
Loading racks are not subject to controls standards because the organic HAP loaded has a rack weighted partial vapor pressure less than 1.5 psia.
Comply with all applicable requirements for transfer racks as specified in 40 CFR 63.2475.
- 175 [40 CFR 63.2520(a)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2520(a), 40 CFR 63.2525(a-k)]
- 176 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Compliance with NESHAP Subpart FFFF, as applicable, determined as MACT.

EQT 0091 4035 - Product Loading F

- 177 [40 CFR 63.2475] Group 2 transfer rack as defined in 40 CFR 63.2550.
Loading racks are not subject to controls standards because the organic HAP loaded has a rack weighted partial vapor pressure less than 1.5 psia.
Comply with all applicable requirements for transfer racks as specified in 40 CFR 63.2475.
- 178 [40 CFR 63.2520(a)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2520(a), 40 CFR 63.2525(a-k)]
- 179 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Compliance with NESHAP Subpart FFFF, as applicable, determined as MACT.

EQT 0092 4036 - Blend Loading

- 180 [40 CFR 63.2475] Group 2 transfer rack as defined in 40 CFR 63.2550.
Loading racks are not subject to controls standards because the organic HAP loaded has a rack weighted partial vapor pressure less than 1.5 psia.
Comply with all applicable requirements for transfer racks as specified in 40 CFR 63.2475.
- 181 [40 CFR 63.2520(a)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2520(a), 40 CFR 63.2525(a-k)]
- 182 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Compliance with NESHAP Subpart FFFF, as applicable, determined as MACT.

EQT 0093 4037 - BRC Loading

- 183 [40 CFR 63.2475] Group 2 transfer rack as defined in 40 CFR 63.2550.
Loading racks are not subject to controls standards because the organic HAP loaded has a rack weighted partial vapor pressure less than 1.5 psia.
Comply with all applicable requirements for transfer racks as specified in 40 CFR 63.2475.
- 184 [40 CFR 63.2520(a)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2520(a), 40 CFR 63.2525(a-k)]
- 185 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Compliance with NESHAP Subpart FFFF, as applicable, determined as MACT.

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EQT 0094 4038 - Thermal Oxidizer

- 186 [40 CFR 63.2450(e)(1)] Meet the requirements of 40 CFR 63.982(c) and the requirements referenced therein, except when complying with 40 CFR 63.2485. Subpart FFFF. [40 CFR 63.2450(e)(1)]
- 187 [40 CFR 63.2450(g)] Requirements for performance tests. The requirements specified in paragraphs (g)(1) through (5) of this section apply instead of or in addition to the requirements specified in subpart SS of this part 63.
[40 CFR 63.2450(g)]
- 188 [40 CFR 63.2450(k)] Continuous parameter monitoring. The provisions in paragraphs (k)(1) through (6) of this section apply in addition to the requirements for continuous parameter monitoring system (CPMS) in subpart SS of this part 63.
[40 CFR 63.2450(k)]
- 189 [40 CFR 63.2525] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- 190 [40 CFR 63.983(a)(1)] Closed-vent systems: Ensure that each closed-vent system is designed and operated to collect the regulated material vapors from the emission point, and to route the collected vapors to a control device. Subpart SS. [40 CFR 63.983(a)(1)]
- 191 [40 CFR 63.983(a)(2)] Closed-vent systems: Operate at all times when emissions are vented to, or collected by, them. Subpart SS. [40 CFR 63.983(a)(2)]
- 192 [40 CFR 63.983(a)(3)(i)] Closed-vent systems (containing bypass lines): Flow monitored by flow indicator at the regulation's specified frequency. Ensure that the flow indicator is capable of taking periodic readings. Install at the entrance to any bypass line. Subpart SS. [40 CFR 63.983(a)(3)(i)]
Which Months: All Year Statistical Basis: None specified
- 193 [40 CFR 63.983(a)(3)(ii)] Closed-vent systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart SS. [40 CFR 63.983(a)(3)(ii)]
- 194 [40 CFR 63.983(a)(4)] Closed-vent systems: Ensure that each closed-vent system is designed and operated so that the regulated material vapors collected at one loading arm will not pass through another loading arm in the rack to the atmosphere. Subpart SS. [40 CFR 63.983(a)(4)]
- 195 [40 CFR 63.983(a)(5)] Closed-vent systems: Ensure that no pressure relief device opens to the atmosphere during loading. Subpart SS. [40 CFR 63.983(a)(5)]
- 196 [40 CFR 63.983(b)(1)(i)(A)] Closed-vent systems (hard-piping): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially. If an instrument reading of 500 ppmv above background is measured, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.983(d)(2). Subpart SS. [40 CFR 63.983(b)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 197 [40 CFR 63.983(b)(1)(i)(B)] Closed-vent systems (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart SS. [40 CFR 63.983(b)(1)(i)(B)]
Which Months: All Year Statistical Basis: None specified
- 198 [40 CFR 63.983(b)(1)(ii)] Closed-vent systems (ductwork): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually. If an instrument reading of 500 ppmv above background is measured, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.983(d)(2). Subpart SS. [40 CFR 63.983(b)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
- 199 [40 CFR 63.983(b)(2)(i)] Closed-vent systems (unsafe-to-monitor): Determine that the equipment is unsafe-to-inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with 40 CFR 63.983(b)(1). Comply with this requirement instead of the requirements in 40 CFR 63.983(b)(1). Subpart SS. [40 CFR 63.983(b)(2)(i)]

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- 200 [40 CFR 63.983(b)(2)(ii)] Closed-vent systems (unsafe-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment as frequently as practical during safe-to-inspect times, at least once annually. Comply with this requirement instead of the requirements in 40 CFR 63.983(b)(1). Subpart SS. [40 CFR 63.983(b)(2)(ii)]
Which Months: All Year Statistical Basis: None specified
- 201 [40 CFR 63.983(b)(3)(i)] Closed-vent systems (difficult-to-monitor): Determine that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters (7 feet) above a support surface. Comply with this requirement instead of the requirements in 40 CFR 63.983(b)(1). Subpart SS. [40 CFR 63.983(b)(3)(i)]
- 202 [40 CFR 63.983(b)(3)(ii)] Closed-vent systems (difficult-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment at least once every 5 years. Comply with this requirement instead of the requirements in 40 CFR 63.983(b)(1). Subpart SS. [40 CFR 63.983(b)(3)(ii)]
Which Months: All Year Statistical Basis: None specified
- 203 [40 CFR 63.983(b)(4)(i)] Closed-vent systems (containing bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Subpart SS. [40 CFR 63.983(b)(4)(i)]
- 204 [40 CFR 63.983(b)(4)(ii)] Closed-vent systems (containing bypass lines): Equipment/operational data monitored by visual inspection/determination monthly. Visually inspect the seal or closure mechanism at least once every month to verify that the valve is maintained in the non-diverting position, and the vent stream is not diverted through the bypass line. Subpart SS. [40 CFR 63.983(b)(4)(ii)]
Which Months: All Year Statistical Basis: None specified
- 205 [40 CFR 63.983(d)(1)] Closed-vent systems (hard piping): Eliminate leak, or monitor according to the procedures in 40 CFR 63.983(c), if there are visible, audible, or olfactory indications of leaks at the time of the annual visual inspections required by 40 CFR 63.983(b)(1)(i)(B). Subpart SS. [40 CFR 63.983(d)(1)]
- 206 [40 CFR 63.983(d)(2)] Closed-vent systems: Repair leaks as soon as practical, except as provided in 40 CFR 63.983(d)(3). Make a first attempt at repair no later than 5 days after the leak is detected, and complete repairs no later than 15 days after the leak is detected or at the beginning of the next introduction of vapors to the system, whichever is later. Subpart SS. [40 CFR 63.983(d)(2)]
- 207 [40 CFR 63.983(d)(3)] Closed-vent systems (delay of repair allowed): Repair equipment as soon as practical, but not later than the end of the next closed-vent system shutdown. Subpart SS. [40 CFR 63.983(d)(3)]
- 208 [40 CFR 63.988(a)(2)] Operate at all times when emissions are vented to control device. Subpart SS. [40 CFR 63.988(a)(2)]
- 209 [40 CFR 63.988(b)(1)] Conduct an initial performance test according to the procedures in 40 CFR 63.997, except as specified in 40 CFR 63.997(b) and 40 CFR 63.988(b)(2). Subpart SS. [40 CFR 63.988(b)(1)]
- 210 [40 CFR 63.988(c)(1)] Temperature monitored by temperature monitoring device continuously. Install the temperature monitoring device in the fire box or in the ductwork immediately downstream of the fire box in a position before any substantial heat exchange occurs. Subpart SS. [40 CFR 63.988(c)(1)]
Which Months: All Year Statistical Basis: None specified
- 211 [40 CFR 63.998] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.998(a) through (d), as applicable. Subpart SS.

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- 212 [40 CFR 63.999(a)(1)(i)] Notify DEQ of the intention to conduct a performance test or flare compliance assessment. Due at least 30 days before such a compliance demonstration is scheduled to allow DEQ the opportunity to have an observer present. Notify DEQ as soon as possible of any delay in the original demonstration date, if after 30 days notice for such an initially scheduled compliance demonstration, there is a delay (due to operational problems, etc.) in conducting the scheduled compliance demonstration. Provide at least 7 days prior notice of the rescheduled date of the compliance demonstration, or arrange a rescheduled date with DEQ by mutual agreement. Subpart SS. [40 CFR 63.999(a)(1)(i)]
- 213 [40 CFR 63.999(a)(1)(ii)] Submit performance test and flare compliance assessment reports, if not submitted as part of a Notification of Compliance Status report, to DEQ within 60 days of completing the test or determination, unless specified differently. Include the information specified in 40 CFR 63.999(a)(2)(i) through (a)(2)(iii). Subpart SS. [40 CFR 63.999(a)(1)(ii)]
- 214 [40 CFR 63.999(a)(1)(iii)] Submit application for a waiver of an initial performance test or flare compliance assessment, as allowed by 40 CFR 63.997(b)(2), no later than 90 days before the performance test or compliance assessment is required. Include information justifying the request for a waiver, such as the technical or economic infeasibility, or the impracticality, of the source performing the test. Subpart SS. [40 CFR 63.999(a)(1)(iii)]
- 215 [40 CFR 63.999(a)(1)(iv)] Submit application to substitute a prior performance test or compliance assessment for an initial performance test or compliance assessment, as allowed by 40 CFR 63.997(b)(1), no later than 90 days before the performance test or compliance test is required. Include information demonstrating that the prior performance test or compliance assessment was conducted using the same methods specified in 40 CFR 63.997(e) or 40 CFR 63.987(b)(3), as applicable. Also include information demonstrating that no process changes have been made since the test, or that the results of the performance test or compliance assessment reliably demonstrate compliance despite process changes. Subpart SS. [40 CFR 63.999(a)(1)(iv)]
- 216 [40 CFR 63.999(b)] Submit Notification of Compliance Status: Due as specified in the referencing subpart. Include the information specified in 40 CFR 63.999(b)(1) through (b)(5), as applicable. Subpart SS. [40 CFR 63.999(b)]
- 217 [40 CFR 63.999(c)] Submit Periodic Report: Due as specified in the referencing subpart. Include the information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]
- 218 [40 CFR 63.999(d)(1)] Submit request for approval to use alternatives to continuous operating parameter monitoring and recordkeeping provisions, as provided for in 40 CFR 63.996(d)(1), as specified in a referencing subpart. Include the information specified in 40 CFR 63.999(d)(1)(i) and (d)(1)(ii). Subpart SS. [40 CFR 63.999(d)(1)]
- 219 [40 CFR 63.999(d)(2)] Submit request for approval to monitor a different parameter than those established in 40 CFR 63.996(c)(6) or to set unique monitoring parameters, as provided for in 40 CFR 63.996(d)(2), as specified as specified in a referencing subpart. Include the information specified in 40 CFR 63.999(d)(2)(i) through (d)(2)(iii). Subpart SS. [40 CFR 63.999(d)(2)]
- 220 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: None specified
- 221 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average
- 222 [LAC 33:III.1513] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

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- 223 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 224 [LAC 33:III.5109.A.1] Compliance with NESHAP 40 CFR 63 Subpart FFFF has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

EQT 0098 TB - Tank B

- 225 [40 CFR 63.2470] Group 1 storage tank that has a capacity greater than 10,000 gals storing material with max true vapor pressure of total HAP greater than 1.0 psia.
Comply with all applicable provisions of 40 CFR 63.2470. Tank is vapor balanced with rail car or tank truck to control working losses, and will have a rupture disc set such that there are no breathing losses. Vapor balancing shall comply with 40 CFR 63.2470(e).
Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2470, 40 CFR 63.2520, 40 CFR 63.2525]
- 226 [40 CFR 63.2535(c)] UCC shall comply with the requirements for Group 1 Storage Tanks in NESHAP Subpart FFFF in lieu of NSPS Subpart Kb. [40 CFR 63.2535(c)]
- 227 [LAC 33:III.2103.B] Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.
- 228 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 229 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 230 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 231 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is compliance with NESHAP FFFF, as applicable. Tank stores Acrylonitrile. Tank is vapor balanced with rail car or tank truck when loading, and has a rupture disk set such that there are no breathing losses.

EQT 0099 TC - Tank C

- 232 [40 CFR 63.2520(a)] Per 40 CFR 63.2520(a), submit each report listed in Table 11, as applicable. Keep records specified in 63.2525(a) through (k), as applicable. [40 CFR 63.2520(a), 40 CFR 63.2525(a-k)]
- 233 [40 CFR 63.2535(c)] Group 2 Storage Tank, as per definition in 40 CFR 63.2550 for existing sources. However, UCC has elected to comply with the requirements for Group 1 Storage Tanks in NESHAP Subpart FFFF per 40 CFR 63.2535(c) in lieu of complying with NSPS Subpart Kb. For control, UCC has elected vapor balancing alternative and shall comply with 40 CFR 63.2470(e). Tank is vapor balanced with railcar or tank truck to control working losses, and has rupture disc set such that there are no breathing losses. [40 CFR 63.2535(c), 40 CFR 63.2470]
- 234 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 235 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with NESHAP Subpart FFFF, as applicable, determined as MACT.

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- 236 [40 CFR 63.2470(e)] Implement vapor balancing in accordance with 40 CFR 63.1253(f), except as specified in 40 CFR 63.2470(e)(1) through (e)(3). Subpart FFFF Tank is vapor balanced with rail car or tank truck to control working losses, and have a rupture disc set such that there are no breathing losses. [40 CFR 63.2470(e)]
- 237 [40 CFR 63.2525] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- 238 [40 CFR 63.2535(c)] UCC shall comply with the requirements for Group I Storage Tanks in NESHAP Subpart FFFF in lieu of NSPS Subpart Kb. [40 CFR 63.2535(c)]
- 239 [LAC 33:III.2103 B] Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.
- 240 [LAC 33:III.2103 B] Equip with a submerged fill pipe.
- 241 [LAC 33:III.2103 E.1] VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. Instead of a vapor loss control with 95% efficiency, this tank is equipped with submerged fill pipe, a vapor balance system with rail car or tank truck, to control working losses, and a pressure vacuum relief valve (PVRV) set such that there are no breathing losses. Which Months: All Year Statistical Basis: None specified
- 242 [LAC 33:III.2103 H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3 a-e.
- 243 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 244 [LAC 33:III.5107 A.2] Emits Class III TAP only Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0101 Tank SL-B - Tank SL-B

- 245 [40 CFR 63.2470(e)] Implement vapor balancing in accordance with 40 CFR 63.1253(f), except as specified in 40 CFR 63.2470(e)(1) through (e)(3). Subpart FFFF Tank is vapor balanced with rail car or tank truck to control working losses, and have a rupture disc set such that there are no breathing losses. [40 CFR 63.2470(e)]
- 246 [40 CFR 63.2525] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- 247 [40 CFR 63.2535(c)] UCC shall comply with the requirements for Group I Storage Tanks in NESHAP Subpart FFFF in lieu of NSPS Subpart Kb. [40 CFR 63.2535(c)]
- 248 [LAC 33:III.2103 B] Equip with a submerged fill pipe.
- 249 [LAC 33:III.2103 B] Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.
- 250 [LAC 33:III.2103 E.1] VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. Instead of a vapor loss control with 95% efficiency, this tank is equipped with submerged fill pipe, a vapor balance system with rail car or tank truck, to control working losses, and a pressure vacuum relief valve (PVRV) set at 5 psig so that there are no breathing losses. Which Months: All Year Statistical Basis: None specified

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- 251 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 252 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 253 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0102 TA - Tank A

- 254 [40 CFR 63.2470] Storage Tank shall comply with all applicable provisions of 40 CFR 63.2470 of Subpart FFFF. Group 2 Storage Tank, as per definition in 40 CFR 63.2550 for existing sources. Tank not subject to control standards because it stores materials having a IIAP partial pressure less than 1.0 psia.
- 255 [40 CFR 63.2520(a)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2520(a), 40 CFR 63.2525(a-k)]
- 256 [LAC 33:III.501.C.6] Tank is vapor balanced during loading to control working losses and has a rupture disk set such that there are no breathing losses.
- 257 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 258 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with NESHAP Subpart FFFF, as applicable, determined as MACT.

EQT 0103 TD - Tank D

- 259 [LAC 33:III.501.C.6] Tank is vapor balanced during loading to control working losses and has a rupture disk set such that there are no breathing losses.
- 260 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 261 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Tank is vapor balanced during loading to control working losses and has pressure relief device set such that there are no breathing losses, determined as MACT.

EQT 0104 TE - Tank E

- 262 [LAC 33:III.501.C.6] Tank is vapor balanced during loading to control working losses and has a rupture disk set such that there are no breathing losses.

EQT 0106 RPR - Reactors / Post Reactors

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EQT 0106 RPR - Reactors / Post Reactors

- 263 [40 CFR 63.2460(a)] UCC shall meet all applicable emission limitations and work practice standards for batch process vents according to requirements of Table 2 to Subpart FFFF of Part 63 Emission Limits and Work Practice Standards for Batch Process Vents. Subpart FFFF
UCC will reduce organic HAP To outlet concentration of 20 ppmv or less as TOC or total organic HAP for Group 1 batch process vents routed through one or more closed vent systems to any combination of control devices (non flare)
- 264 [40 CFR 63.2460(b)(5)(ii)] [40 CFR 63.2460(a)]
For batch process vents designated as Group 1, facility will conduct performance test under hypothetical worst case conditions, as defined in 40 CFR 63.1257(b)(8)(i)(B), Subpart GGG; and emission profile based on capture and control system limitations as specified in 40 CFR 63.1257(b)(8)(ii)(C), Subpart GGG. Subpart FFFF. [40 CFR 63.2460(b)(5)(ii)]
- 265 [40 CFR 63.2460(c)(2)(vi)] UCC will conduct subsequent performance test or compliance demonstration equivalent to initial compliance demonstration within 180 days of a change in worst-case conditions. Subpart FFFF. [40 CFR 63.2460(c)(2)(vi)]
- 266 [40 CFR 63.2460(c)(7)] For intermittent flows, facility will install, calibrate, and operate a flow indicator at the inlet or outlet of the control device to identify periods of no flow. Periods of no flow may not be used in any daily or block averages, and it may not be used in fulfilling a minimum data availability requirement. [40 CFR 63.2460(c)(7)]
- 267 [40 CFR 63.2520] Permittee shall comply with all applicable reporting requirements of 40 CFR 63 Subpart FFFF, Table 11
- 268 [40 CFR 63.2525] Maintain records specified in 40 CFR 63.2525, as applicable.
- 269 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 270 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Combustion in Thermal Oxidizer, EQT 094, determined as MACT.

EQT 0107 D1 - Degasser # 1

- 271 [40 CFR 63.2460(a)] UCC shall meet all applicable emission limitations and work practice standards for batch process vents according to requirements of Table 2 to Subpart FFFF of Part 63 Emission Limits and Work Practice Standards for Batch Process Vents. Subpart FFFF
UCC will reduce organic HAP To outlet concentration of 20 ppmv or less as TOC or total organic HAP for Group 1 batch process vents routed through one or more closed vent systems to any combination of control devices (non flare)
- 272 [40 CFR 63.2460(b)(5)(ii)] [40 CFR 63.2460(a)]
For batch process vents designated as Group 1, facility will conduct performance test under hypothetical worst case conditions, as defined in 40 CFR 63.1257(b)(8)(i)(B), Subpart GGG; and emission profile based on capture and control system limitations as specified in 40 CFR 63.1257(b)(8)(ii)(C), Subpart GGG. Subpart FFFF. [40 CFR 63.2460(b)(5)(ii)]
- 273 [40 CFR 63.2460(c)(2)(vi)] UCC will conduct subsequent performance test or compliance demonstration equivalent to initial compliance demonstration within 180 days of a change in worst-case conditions. Subpart FFFF. [40 CFR 63.2460(c)(2)(vi)]

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EQT 0107 D1 - Degasser # 1

- 274 [40 CFR 63.2460(c)(7)] For intermittent flows, facility will install, calibrate, and operate a flow indicator at the inlet or outlet of the control device to identify periods of no flow. Periods of no flow may not be used in any daily or block averages, and it may not be used in fulfilling a minimum data availability requirement. [40 CFR 63.2460(c)(7)]
- 275 [40 CFR 63.2520] Permittee shall comply with all applicable reporting requirements of 40 CFR 63 Subpart FFFF, Table 11.
- 276 [40 CFR 63.2525] Maintain records as specified in 63.2525 (a) through (k), as applicable.
- 277 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 278 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Combustion in Thermal Oxidizer, EQT 094, determined as MACT.

EQT 0621 4048 - BRC Loading #2

- 279 [40 CFR 63.2475] Group 2 transfer rack as defined in 40 CFR 63.2550.
Loading racks are not subject to controls standards because the organic HAP loaded has a rack weighted partial vapor pressure less than 1.5 psia.
- 280 [40 CFR 63.2520(a)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2520(a), 40 CFR 63.2525(a-k)]
- 281 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with NESHAP Subpart FFFF, as applicable, determined as MACT.

EQT 0721 4046 - Tank Vent No.46

- 282 [40 CFR 63.2470] Storage Tank shall comply with all applicable provisions of 40 CFR 63.2470 of Subpart FFFF.
Group 2 Storage Tank, as per definition in 40 CFR 63.2550 for existing sources. Tank not subject to control standards because it stores materials having a HAP partial pressure less than 1.0 psia.
- 283 [40 CFR 63.2525(a-k)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2525(a-k), 40 CFR 63.2520(a)]
- 284 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 285 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is compliance with NESHAP FFFF as applicable.

EQT 0722 4045 - Tank Vent No.45

- 286 [40 CFR 63.2470] Storage Tank shall comply with all applicable provisions of 40 CFR 63.2470 of Subpart FFFF.
Group 2 Storage Tank, as per definition in 40 CFR 63.2550 for existing sources. Tank not subject to control standards because it stores materials having a HAP partial pressure less than 1.0 psia.

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EQT 0722 4045 - Tank Vent No.45

- 287 [40 CFR 63.2525(a-k)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2525(a-k), 40 CFR 63.2520(a)]
- 288 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0723 4044 - Tank Vent No.44

- 289 [40 CFR 63.2470] Storage Tank shall comply with all applicable provisions of 40 CFR 63.2470 of Subpart FFFF. Group 2 Storage Tank, as per definition in 40 CFR 63.2550 for existing sources. Tank not subject to control standards because it stores materials having a HAP partial pressure less than 1.0 psia.
- 290 [40 CFR 63.2525(a-k)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2525(a-k), 40 CFR 63.2520(a)]
- 291 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 292 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with NESHAP FFFF, as applicable, determined as MACT.

EQT 0724 4043 - Tank Vent No.43

- 293 [40 CFR 63.2470] Storage Tank shall comply with all applicable provisions of 40 CFR 63.2470 of Subpart FFFF. Group 2 Storage Tank, as per definition in 40 CFR 63.2550 for existing sources. Tank not subject to control standards because it stores materials having a HAP partial pressure less than 1.0 psia.
- 294 [40 CFR 63.2525(a-k)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2525(a-k), 40 CFR 63.2520(a)]
- 295 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 296 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is compliance with NESHAP FFFF as applicable.

EQT 0725 D2 - Degasser # 2

- 297 [40 CFR 63.2460(a)] UCC shall meet all applicable emission limitations and work practice standards for batch process vents according to requirements of Table 2 to Subpart FFFF of Part 63 Emission Limits and Work Practice Standards for Batch Process Vents. Subpart FFFF UCC will reduce organic HAP To outlet concentration of 20 ppmv or less as TOC or total organic HAP for Group 1 batch process vents routed through one or more closed vent systems to any combination of control devices (non flare). [40 CFR 63.2460(a)]
- 298 [40 CFR 63.2460(b)(5)(ii)] For batch process vents designated as Group 1, facility will conduct performance test under hypothetical worst case conditions, as defined in 40 CFR 63.1257(b)(8)(i)(B), Subpart GGG; and emission profile based on capture and control system limitations as specified in 40 CFR 63.1257(b)(8)(ii)(C), Subpart GGG. Subpart FFFF. [40 CFR 63.2460(b)(5)(ii)]

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- 299 [40 CFR 63.2460(c)(2)(vi)] UCC will conduct subsequent performance test or compliance demonstration equivalent to initial compliance demonstration within 180 days of a change in worst-case conditions. Subpart FFFF. [40 CFR 63.2460(c)(2)(vi)]
- 300 [40 CFR 63.2460(c)(7)] For intermittent flows, facility will install, calibrate, and operate a flow indicator at the inlet or outlet of the control device to identify periods of no flow. Periods of no flow may not be used in any daily or block averages, and it may not be used in fulfilling a minimum data availability requirement. [40 CFR 63.2460(c)(7)]
- 301 [40 CFR 63.2520] Permittee shall comply with all applicable reporting requirements of 40 CFR 63 Subpart FFFF, Table 11.
- 302 [40 CFR 63.2525] Maintain records as specified in 63.2525 (a) through (k), as applicable.
- 303 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 304 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Combustion in Thermal Oxidizer, EQT 094, determined as MACT.

EQT 0726 4049 - Tank Vent No. 49

- 305 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 306 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is compliance with NESHAP FFFF, as applicable.

EQT 0732 D-192A - PI Tank

- 307 [40 CFR 63.2470] Storage Tank shall comply with all applicable provisions of 40 CFR 63.2470 of Subpart FFFF, Group 2 Storage Tank, as per definition in 40 CFR 63.2550 for existing sources. Tank not subject to control standards because it stores materials having a HAP partial pressure less than 1.0 psia.
- 308 [40 CFR 63.2520(a)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2520(a), 40 CFR 63.2525(a-k)]
- 309 [LAC 33:III.2103.A] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- 310 [LAC 33:III.2103.E.1] VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- 311 [LAC 33:III.2103.H.3] Which Months: All Year Statistical Basis: None specified
- 312 [LAC 33:III.2103.I] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 313 [LAC 33:III.5107.A.2] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 313 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

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- 314 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is compliance with NESHAP FFFF as applicable.

EQT 0733 D-110A - Acrylic Acid Tank

- 315 [40 CFR 63.2470] Storage Tank shall comply with all applicable provisions of 40 CFR 63.2470 of Subpart FFFF, Group 2 Storage Tank, as per definition in 40 CFR 63.2550 for existing sources. Tank not subject to control standards because it stores materials having a HAP partial pressure less than 1.0 psia.
- 316 [40 CFR 63.2520(a)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2520(a), 40 CFR 63.2525(a-k)]
- 317 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0734 D-115A - MAA Tank

- 318 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0735 4053 - Tank Vent No. 53

- 319 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 320 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is compliance with NESHAP FFFF as applicable.

EQT 0978 3266 - E-28A SE Corner of Latex Block Sump

- 321 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 322 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

EQT 0979 3267 - E-28B SW Corner of Latex Block Sump

- 323 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 324 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional controls.

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EQT 1077 4054 - Tank Vent No. 54

- 325 [40 CFR 63.2470] Storage Tank shall comply with all applicable provisions of 40 CFR 63.2470 of Subpart FFFF. Group 2 Storage Tank, as per definition in 40 CFR 63.2550 for existing sources. Tank not subject to control standards because it stores materials having a HAP partial pressure less than 1.0 psia.
- 326 [40 CFR 63.2525(a-k)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2525(a-k), 40 CFR 63.2520(a)]
- 327 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 328 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with NESHAP FFFF, as applicable, determined as MACT.

EQT 1078 4055 - Tank Vent No. 55

- 329 [40 CFR 63.2470] Storage Tank shall comply with all applicable provisions of 40 CFR 63.2470 of Subpart FFFF. Group 2 Storage Tank, as per definition in 40 CFR 63.2550 for existing sources. Tank not subject to control standards because it stores materials having a HAP partial pressure less than 1.0 psia.
- 330 [40 CFR 63.2525(a-k)] Per 40 CFR 63.2520(a), submit each report listed in Table 11 as applicable. Keep records specified in 63.2525(a) through (k). [40 CFR 63.2525(a-k), 40 CFR 63.2520(a)]
- 331 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 1080 UA - Unloading Activities

- 332 [40 CFR 63.2343(a)] Keep documentation that verifies that each transfer rack identified in 40 CFR 63.2343(a) is not required to be controlled. Keep documentation up-to-date (i.e., all such emission sources at a facility are identified in the documentation regardless of when the documentation was last compiled) and in a form suitable and readily available for expeditious inspection and review according to 40 CFR 63.10(b)(1), including records stored in electronic form in a separate location. Subpart EEEE. [40 CFR 63.2343(a)]
- 333 [40 CFR 63.2346(c)] Transfer racks that unload organic liquids as defined in 40 CFR 63.2406 are subject to equipment leak provisions in 40 CFR 63.2346(c) as applicable. UCC has opted into the Louisiana Fugitive Emissions Program Consolidation. [40 CFR 63.2346(c), 40 CFR 63.2396(e)(2)]
- 334 [40 CFR 63.2396(e)(2)] For transfer racks that unload organic liquids only, identify other subpart of 40 CFR 63 being complied with for equipment leaks in Notification of Compliance Status required by 40 CFR 63.2382(b). UCC has opted in the Louisiana Fugitive Emissions Program Consolidation. [40 CFR 63.2396(e)(2)]

FUG 0002 4041 - Fugitive Emissions

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- 335 [40 CFR 63.1022(c)(3)] Unsafe- and difficult-to-monitor equipment: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the identity of equipment designated as unsafe-to-monitor according to the provisions of 40 CFR 63.1022(c)(1) and the planned schedule for monitoring this equipment. Also record the identity of equipment designated as difficult-to-monitor according to the provisions of 40 CFR 63.1022(c)(2), the planned schedule for monitoring this equipment, and an explanation why the equipment is unsafe or difficult-to-monitor. Keep this record at the plant and make available for review by an inspector. Subpart UU. [40 CFR 63.1022(c)(3)]
- 336 [40 CFR 63.1022(c)(4)(i)] Unsafe-to-monitor equipment: Have a written plan that requires monitoring of the equipment as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in 40 CFR 63.1024 if a leak is detected. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) and (d)(2) for valves, 40 CFR 63.1026(b) and the monitoring and inspection requirements of 40 CFR 63.1026(e)(1)(v) through (viii) for pumps, 40 CFR 63.1027(a) and (b) for connectors, and 40 CFR 63.1028(c) for agitators. Subpart UU. [40 CFR 63.1022(c)(4)(i)]
- 337 [40 CFR 63.1022(c)(4)(ii)] Difficult-to-monitor equipment: Have a written plan that requires monitoring of the equipment at least once per calendar year and repair of the equipment according to the procedures in 40 CFR 63.1024 if a leak is detected. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) for valves, and 40 CFR 63.1028(c) for agitators. Subpart UU. [40 CFR 63.1022(c)(4)(ii)]
- 338 [40 CFR 63.1022(d)(2)] Connectors (unsafe-to-repair): Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the identity of connectors designated as unsafe-to-repair and an explanation of why the connectors are unsafe-to-repair. Subpart UU. [40 CFR 63.1022(d)(2)]
- 339 [40 CFR 63.1022(f)] Equipment in heavy liquid service: Retain information, data, and analyses used to determine that a piece of equipment is in heavy liquid service, or, when requested by DEQ, demonstrate that the piece of equipment or process is in heavy liquid service. Subpart UU. [40 CFR 63.1022(f)]
- 340 [40 CFR 63.1022] Identify equipment subject to 40 CFR 63 Subpart UU as specified in 40 CFR 63.1022(a) through (f), as applicable. Subpart UU.
- 341 [40 CFR 63.1023(e)(1)] Attach a weatherproof and readily visible identification to leaking equipment, when a leak is detected pursuant to the monitoring specified in 40 CFR 63.1023(a). Subpart UU. [40 CFR 63.1023(e)(1)]
- 342 [40 CFR 63.1023(e)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of a leak. Record the information specified in 40 CFR 63.1024(f) when a leak is detected. Keep the records pursuant to the referencing subpart, except keep information for connectors complying with the 8 year monitoring period allowed under 40 CFR 63.1027(b)(3)(iii) for 5 years beyond the date of its last use. Subpart UU. [40 CFR 63.1023(e)(2)]
- 343 [40 CFR 63.1024(a)] Repair each leak detected as soon as practical, but not later than 15 calendar days after it is detected, except as specified in 40 CFR 63.1024(d) and (e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Subpart UU. [40 CFR 63.1024(a)]
- 344 [40 CFR 63.1024(d)] Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of delay of repair of a leak. Maintain a record of the facts that explain any delay of repairs and, where appropriate, why the repair was technically infeasible without a process unit shutdown. Subpart UU. [40 CFR 63.1024(d)]
- 345 [40 CFR 63.1025(b)(3)(i)] Valves in gas/vapor service and light liquid service (the greater of 2 valves or 2% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Subpart UU. [40 CFR 63.1025(b)(3)(i)]
- Which Months: All Year Statistical Basis: None specified

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FUG 0002 4041 - Fugitive Emissions

- 346 [40 CFR 63.1025(b)(3)(ii)] Valves in gas/vapor service and light liquid service (less than the greater of 2 valves or 2% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly to detect leaks, except as specified in 40 CFR 63.1025(b)(3)(iii) through (b)(3)(v). If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Subpart UU. [40 CFR 63.1025(b)(3)(ii)]
Which Months: All Year Statistical Basis: None specified
- 347 [40 CFR 63.1025(b)(3)(iii)] Valves in gas/vapor service and light liquid service (less than 1% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(iii)]
Which Months: All Year Statistical Basis: None specified
- 348 [40 CFR 63.1025(b)(3)(iv)] Valves in gas/vapor service and light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(iv)]
Which Months: All Year Statistical Basis: None specified
- 349 [40 CFR 63.1025(b)(3)(v)] Valves in gas/vapor service and light liquid service (less than 0.25% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(v)]
Which Months: All Year Statistical Basis: None specified
- 350 [40 CFR 63.1025(b)(3)(vi)] Valves in gas/vapor service and light liquid service: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep a record of the monitoring schedule for each process unit. Subpart UU. [40 CFR 63.1025(b)(3)(vi)]
- 351 [40 CFR 63.1025(c)(1)(ii)] Valves in gas/vapor service and light liquid service: Calculate the percent leaking valves for each monitoring period for each process unit or valve subgroup using the equation in 40 CFR 63.1025(c)(1)(ii). Subpart UU. [40 CFR 63.1025(c)(1)(ii)]
- 352 [40 CFR 63.1025(d)(2)] Valves in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within three months after repair of a leak to determine whether the valve has resumed leaking. Subpart UU. [40 CFR 63.1025(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 353 [40 CFR 63.1025(e)(1)] Valves in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) and (d)(2). Subpart UU. [40 CFR 63.1025(e)(1)]
Which Months: All Year Statistical Basis: None specified
- 354 [40 CFR 63.1025(e)(2)] Valves in gas/vapor service and light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually to detect leaks. Monitor at least once per calendar year. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b). Subpart UU. [40 CFR 63.1025(e)(2)]
Which Months: All Year Statistical Basis: None specified

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Air - Title V Regular Permit Renewal

FUG 0002 4041 - Fugitive Emissions

- 355 [40 CFR 63.1025(e)(3)] Valves in gas/vapor service and light liquid service (fewer than 250 valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the monthly monitoring specified in 40 CFR 63.1025(b)(3)(i). Subpart UU. [40 CFR 63.1025(e)(3)]
Which Months: All Year Statistical Basis: None specified
- 356 [40 CFR 63.1026(b)(4)] Pumps in light liquid service: Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Subpart UU. [40 CFR 63.1026(b)(4)]
- 357 [40 CFR 63.1026(b)(4)] Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, follow the procedure specified in 40 CFR 63.1026(b)(4)(i) or (b)(4)(ii). Subpart UU. [40 CFR 63.1026(b)(4)]
Which Months: All Year Statistical Basis: None specified
- 358 [40 CFR 63.1026(b)] Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks. If a reading of 5,000 ppm (pumps handling polymerizing monomers), 2,000 ppm (pumps in food/medical service), or 1,000 ppm (all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1026(d). Initiate repairs for pumps with a 1,000 ppm leak definition only when an instrument reading of 2,000 ppm or greater is detected. Subpart UU. [40 CFR 63.1026(b)]
Which Months: All Year Statistical Basis: None specified
- 359 [40 CFR 63.1026(c)(2)] Pumps in light liquid service: Implement a quality improvement program that complies with 40 CFR 63.1035 if, when calculated on a 6-month rolling average, at least the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart UU. [40 CFR 63.1026(c)(2)]
- 360 [40 CFR 63.1026(c)(4)] Pumps in light liquid service: Determine percent leaking pumps using the equation specified in 40 CFR 63.1026(c)(4). Subpart UU. [40 CFR 63.1026(c)(4)]
- 361 [40 CFR 63.1026(e)(1)(i)] Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria applicable to the presence and frequency of drips and to the sensor that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(i)]
- 362 [40 CFR 63.1026(e)(1)(i)] Pumps in light liquid service (dual mechanical seal system): Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records at the plant of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Make records available for review by an inspector. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(i)]
- 363 [40 CFR 63.1026(e)(1)(ii)] Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times (except periods of startup, shutdown, or malfunction) greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(ii)]
- 364 [40 CFR 63.1026(e)(1)(iii)] Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(iii)]

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AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20080018

Permit Number: 2876-V2

Air - Title V Regular Permit Renewal

FUG 0002 4041 - Fugitive Emissions

- 365 [40 CFR 63.1026(e)(1)(iv)] Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, the barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(iv)]
- 366 [40 CFR 63.1026(e)(1)(v)] Pumps in light liquid service (dual mechanical seal system): Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(v)]
- 367 [40 CFR 63.1026(e)(1)(v)] Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal, follow the procedure specified in 40 CFR 63.1026(e)(1)(v)(A) or (e)(1)(v)(B) prior to the next required inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(v)]
- 368 [40 CFR 63.1026(e)(1)(vii)] Pumps in light liquid service (dual mechanical seal system - sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(vii)]
- 369 [40 CFR 63.1026(e)(6)] Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 5,000 ppm (pumps handling polymerizing monomers), 2,000 ppm (pumps in food/medical service), or 1,000 ppm (all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements of 40 CFR 63.1026(b) and the monitoring and inspection requirements of 40 CFR 63.1026(e)(1)(v) through (viii). Subpart UU. [40 CFR 63.1026(e)(6)]
- 370 [40 CFR 63.1027(a)] Connectors in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor all connectors in each process unit initially for leaks by the later of either 12 months after the compliance date as specified in a referencing subpart or 12 months after initial startup. If an instrument reading of 500 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(d). Subpart UU. [40 CFR 63.1027(a)]
- 371 [40 CFR 63.1027(b)(3)(i)] Connectors in gas/vapor service and light liquid service (0.5% or greater leaking connectors): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor within 12 months after the initial monitoring specified in 40 CFR 63.1027(a). If a reading of 500 ppm is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(d). Subpart UU. [40 CFR 63.1027(b)(3)(i)]
- Which Months: All Year Statistical Basis: None specified

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- 372 [40 CFR 63.1027(b)(3)(ii)] Connectors in gas/vapor service and light liquid service (greater than or equal to 0.25% but less than 0.5% leaking connectors): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor within 4 years after the initial monitoring specified in 40 CFR 63.1027(a). If a reading of 500 ppm is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(d). Subpart UU. [40 CFR 63.1027(b)(3)(ii)]
Which Months: All Year Statistical Basis: None specified
- 373 [40 CFR 63.1027(b)(3)(iii)] Connectors in gas/vapor service and light liquid service (less than 0.25% leaking connectors): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor connectors as specified in 40 CFR 63.1027(b)(3)(iii)(A) and either (b)(3)(iii)(B) or (b)(3)(iii)(C), as appropriate. If a reading of 500 ppm is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(d). Subpart UU. [40 CFR 63.1027(b)(3)(iii)]
Which Months: All Year Statistical Basis: None specified
- 374 [40 CFR 63.1027(b)(3)(iv)] Connectors in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 90 days after repair of a connector that is found to be leaking during the monitoring conducted pursuant to 40 CFR 63.1027(b)(3)(i) through (b)(3)(iii), to confirm that it is not leaking. Subpart UU. [40 CFR 63.1027(b)(3)(iv)]
Which Months: All Year Statistical Basis: None specified
- 375 [40 CFR 63.1027(b)(3)(v)] Connectors in gas/vapor service and light liquid service: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep a record of the start date and end date of each monitoring period under 40 CFR 63.1027 for each process unit. Subpart UU. [40 CFR 63.1027(b)(3)(v)]
- 376 [40 CFR 63.1027(c)] Connectors in gas/vapor service and light liquid service: Calculate percent leaking connectors using the equation in 40 CFR 63.1027(c). Subpart UU. [40 CFR 63.1027(c)]
- 377 [40 CFR 63.1027(c)(1)] Connectors in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1027(a) and (b). Subpart UU. [40 CFR 63.1027(c)(1)]
Which Months: All Year Statistical Basis: None specified
- 378 [40 CFR 63.1027(c)(2)(i)] Connectors in gas/vapor service and light liquid service (inaccessible, ceramic, or ceramic-lined): Eliminate the visual, audible, olfactory, or other indications of a leak to the atmosphere as soon as practical, if connector is observed by visual, audible, olfactory, or other means to be leaking. Comply with this requirement in lieu of the monitoring requirements of 40 CFR 63.1027(a) and (b), and the recordkeeping and reporting requirements of 63.1038 and 63.1039. Subpart UU. [40 CFR 63.1027(c)(2)(ii)]
- 379 [40 CFR 63.1028(c)(1)] Agitators in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as specified in 40 CFR 63.1021(b), 63.1036, 63.1037, or 63.1028(e). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1028(d). Subpart UU. [40 CFR 63.1028(c)(1)]
Which Months: All Year Statistical Basis: None specified
- 380 [40 CFR 63.1028(c)(3)] Agitators in gas/vapor service and light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator seal. If there are indications of liquids dripping from the agitator seal, follow the procedures specified in 40 CFR 63.1028(c)(3)(ii)(A) or (c)(3)(ii)(B) prior to the next required inspection. Subpart UU. [40 CFR 63.1028(c)(3)]
Which Months: All Year Statistical Basis: None specified

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- 381 [40 CFR 63.1028(c)(3)] Agitators in gas/vapor service and light liquid service: Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Subpart UU. [40 CFR 63.1028(c)(3)]
- 382 [40 CFR 63.1028(e)(1)(i)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times (except during periods of startup, shutdown, or malfunction) greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that meets the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(i)]
- 383 [40 CFR 63.1028(e)(1)(ii)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(ii)]
- 384 [40 CFR 63.1028(e)(1)(iii)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(iii)]
- 385 [40 CFR 63.1028(e)(1)(iv)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator seal. If there are indications of liquids dripping from the agitator seal, follow the procedures specified in 40 CFR 63.1028(e)(1)(iv)(A) or (e)(1)(iv)(B) prior to the next required inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(iv)]
- 386 [40 CFR 63.1028(e)(1)(v)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system - sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator seal is located within the boundary of an unmanned plant site. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(v)]
- 387 [40 CFR 63.1028(e)(1)(vi)(A)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both and applicable to the presence and frequency of drips. If indications of liquids dripping from the agitator seal exceed the criteria, or if, based on the criteria the sensor indicates a failure of the seal system, the barrier fluid system, or both, a leak is detected. If a leak is detected, repair pursuant to 40 CFR 63.1024, as applicable. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(vi)(A)]
- 388 [40 CFR 63.1028(e)(1)(vi)(B)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(vi)(B)]
- 389 [40 CFR 63.1028(e)(4)] Agitators in gas/vapor service and light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Comply with this requirement in lieu of the weekly visual inspection requirements of 40 CFR 63.1028(c)(3) and (e)(1)(iv) and the daily requirements of 40 CFR 63.1028(e)(1)(v). Subpart UU. [40 CFR 63.1028(e)(4)]
- Which Months: All Year Statistical Basis: None specified

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- 390 [40 CFR 63.1028(c)(5)] Agitators in gas/vapor service and light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor at least once per calendar year. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(c)(5)]
Which Months: All Year Statistical Basis: None specified
- 391 [40 CFR 63.1028(e)(7)] Agitators in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(7)]
Which Months: All Year Statistical Basis: None specified
- 392 [40 CFR 63.1029(b)] Pumps, valves, connectors, and agitators in heavy liquid service; pressure relief devices in liquid service; and instrumentation systems: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after evidence of a potential leak to the atmosphere is found by visual, audible, olfactory, or any other detection method, unless the potential leak is repaired as required in 40 CFR 63.1029(c). If an instrument reading of 10,000 ppm or greater (agitators), 5,000 ppm or greater (pumps handling polymerizing monomers), 2,000 ppm or greater (pumps in food and medical service, and all other pumps), or 500 ppm or greater (valves, connectors, instrumentation systems, and pressure relief devices) is measured, a leak is detected. If a leak is detected, repair pursuant to 40 CFR 63.1024, as applicable. Subpart UU. [40 CFR 63.1029(b)]
Which Months: All Year Statistical Basis: None specified
- 393 [40 CFR 63.1030(b)] Pressure relief devices in gas/vapor service: Organic HAP < 500 ppm except during pressure releases as provided for in 40 CFR 63.1030(c), or as otherwise specified in 40 CFR 63.1036, 63.1037, or 63.1030(d) or (e). Subpart UU. [40 CFR 63.1030(b)]
Which Months: All Year Statistical Basis: None specified
- 394 [40 CFR 63.1030(c)(1)] Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.1024(d). Subpart UU. [40 CFR 63.1030(c)(1)]
- 395 [40 CFR 63.1030(c)(2)] Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after a pressure release to confirm the condition indicated by an instrument reading of less than 500 ppm above background. Subpart UU. [40 CFR 63.1030(c)(2)]
Which Months: All Year Statistical Basis: None specified
- 396 [40 CFR 63.1030(c)(3)] Pressure relief devices in gas/vapor service: Monitoring data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the dates and results of the monitoring required by 40 CFR 63.1030(c)(2) following a pressure release including the background level measured and the maximum instrument reading measured during the monitoring. Subpart UU. [40 CFR 63.1030(c)(3)]
- 397 [40 CFR 63.1030(e)] Pressure relief devices in gas/vapor service (rupture disk): Install a replacement rupture disk upstream of the pressure relief device as soon as practical after each pressure release but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.1024(d). Comply with this requirement in lieu of the requirements in 40 CFR 63.1030(b) and (c). Subpart UU. [40 CFR 63.1030(e)]
- 398 [40 CFR 63.1031(b)] Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, and 63.1031(e) and (f). Subpart UU. [40 CFR 63.1031(b)]

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- 399 [40 CFR 63.1031(b)] Compressors (seal system): Operate with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure at all times (except during periods of startup, shutdown, or malfunction); or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that meets the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart UU. [40 CFR 63.1031(b)]
- 400 [40 CFR 63.1031(c)] Compressors (sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an alarm unless the compressor is located within the boundary of an unmanned plant site. Subpart UU. [40 CFR 63.1031(c)]
Which Months: All Year Statistical Basis: None specified
- 401 [40 CFR 63.1031(c)] Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart UU. [40 CFR 63.1031(c)]
- 402 [40 CFR 63.1031(c)] Compressors: Equip each barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart UU. [40 CFR 63.1031(c)]
- 403 [40 CFR 63.1031(d)(1)] Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024, as applicable. Subpart UU. [40 CFR 63.1031(d)(1)]
- 404 [40 CFR 63.1031(d)(2)] Compressors: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Subpart UU. [40 CFR 63.1031(d)(2)]
- 405 [40 CFR 63.1031(e)] Compressors (routed to a process or fuel gas system or equipped with a closed-vent system): Equip with a system to capture and transport leakage from the compressor drive shaft seal to a process or a fuel gas system or to a closed-vent system that captures and transports leakage from the compressor to a control device meeting the requirements of either 40 CFR 63.1034 or 63.1021(b). Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(e)]
- 406 [40 CFR 63.1031(f)(1)] Compressors (operating with instrument reading of less than 500 ppm above background): Organic HAP < 500 ppm above background at all times, as demonstrated initially upon designation, annually, and at other times requested by DEQ. Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(f)(1)]
Which Months: All Year Statistical Basis: None specified
- 407 [40 CFR 63.1031(f)(2)] Compressors (operating with instrument reading of less than 500 ppm above background): Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of a compliance test. Record the dates and results of each compliance test including the background level measured and the maximum instrument reading measured during each compliance test. Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(f)(2)]
- 408 [40 CFR 63.1032] Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, or 63.1032(d). Operate the system as specified in 40 CFR 63.1032(c)(1) through (c)(5). Subpart UU.
- 409 [40 CFR 63.1033(b)] Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, and 63.1033(c) and (d). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart UU. [40 CFR 63.1033(b)]
- 410 [40 CFR 63.1034(b)(1)] Comply with the provisions of 40 CFR 63 Subpart SS, except as provided in 40 CFR 63.1002(b), if routing emissions from equipment leaks to a fuel gas system or process. Subpart UU. [40 CFR 63.1034(b)(1)]

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- 411 [40 CFR 63.1035] Comply with applicable requirements for a quality improvement program for pumps.
- 412 [40 CFR 63.1038] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.1038(b) and (c). Subpart UU.
- 413 [40 CFR 63.1039(a)] Submit Initial Compliance Status Report: Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(a)(1) through (a)(3), as applicable. Subpart UU. [40 CFR 63.1039(a)]
- 414 [40 CFR 63.1039(b)] Submit Periodic Reports: Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(b)(1) through (b)(8), as applicable. Subpart UU. Comply with Louisiana Fugitive Emissions Consolidation Program. [40 CFR 63.1039(b)]
- 415 [40 CFR 63.2480] Comply with 40 CFR 63 Subpart FFFF and LAC 33:III.2121 by implementing the Louisiana Consolidated Emission Program Guidelines. Compliance is achieved through compliance with 40 CFR 63 Subpart UU as referred from 40 CFR 63 Subpart FFFF. [40 CFR 63.2480, LAC 33:III.2121.A]
- 416 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 417 [LAC 33:III.501 C 6] Permittee shall implement a streamlined Leak Detection and Repair (LDAR) program using 40 CFR 63 Subpart UU in accordance with Part 70 Specific Condition No. 1 located in the Title V permit. The Program shall comply with the Louisiana Fugitive Emission Program Consolidation (LFEP) guidelines.
- 418 [LAC 33:III.5107 A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 419 [LAC 33:III.5109 A.1] Compliance with NESHAP 40 CFR 63 Subpart FFFF has been determined to be compliance with MACT in accordance with LAC 33:III.5109 A.2.

GRP 0135 BT CAP - Blend Tank CAP

Group Members: EQT 0065 EQT 0726 EQT 0735

- 420 [LAC 33:III.501 C 6] Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total volumetric throughput for the blend tanks in the BT Cap each month, as well as the total throughput for the last twelve months. Make records available for inspection by DEQ personnel.
- 421 [LAC 33:III.501 C 6] Volume monitored by technically sound method monthly.
Which Months: All Year Statistical Basis: None specified
- 422 [LAC 33:III.501 C 6] Throughput of latex product stored in the blend tanks comprising the BT Cap shall be limited to a Volume <= 34.2 MM gallons/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if throughput volume exceeds the maximum listed in this specific condition for any twelve consecutive month period.
Which Months: All Year Statistical Basis: 12-month rolling sum
- 423 [LAC 33:III.501 C 6] Submit report: Due annually, by the 31st of March. Report the total Volumetric throughput for the BT Cap for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

GRP 0136 PL CAP - Product Loading CAP

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Group Members: EQT 0086EQT 0087EQT 0088EQT 0089EQT 0090EQT 0091EQT 0092EQT 0093EQT 0621

- 424 [LAC 33:III.501.C.6] Submit report: Due annually, by the 31st of March. Report the total latex product Volume loaded for the PL Cap for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
- 425 [LAC 33:III.501.C.6] Volume monitored by technically sound method monthly.
Which Months: All Year Statistical Basis: None specified
- 426 [LAC 33:III.501.C.6] Throughput of latex product loaded into trucks and railcars from the Equipment items comprising the PL Cap shall be limited to a Volume \leq 102.3 MM gallons/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if throughput volume exceeds the maximum listed in this specific condition for any twelve consecutive month period.
Which Months: All Year Statistical Basis: 12-month rolling sum
- 427 [LAC 33:III.501.C.6] Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total volume of latex product loaded each month, as well as the total volume loaded for the last twelve months. Make records available for inspection by DEQ personnel.

UNF 0010 UCC - Unit 9

- 428 [40 CFR 60.] Unit 9 shall comply with all applicable provisions in 40 CFR 60 Subpart A.
- 429 [40 CFR 63.1-15] Facility shall comply with all applicable provisions from TABLE 12 of Subpart FFFF.
Table 12 of Subpart FFFF shows which parts of the general provisions in 63.1-15 (NESHAP) Subpart A) apply. [40 CFR 63.1-15, 40 CFR 63.2540]
- 430 [40 CFR 63.2435(a)] Facility shall comply with all applicable requirements from NESHAP Subpart FFFF 40 CFR 63.2430- 2550.
Unit 9 is a Miscellaneous Organic Chemical Manufacturing Process Unit (MCPU) located at a major source of HAP emissions.
Unit 9 does not meet the definition of a new source as specified in 40 CFR 63.2440(c)(2).
Unit 9 will be considered an existing source, per NESHAP Subpart FFFF.
Unit 9 emits < 10 TPY of any one HAP, and < 25 TPY of combined HAPs. [40 CFR 63.2435(a), 40 CFR 63.2435(b)(1,2)]
- 431 [40 CFR 63.2515] Facility shall comply with all applicable notifications, reports, monitoring and record keeping as described in 40 CFR 63.2515.
- 432 [40 CFR 63.2520] Facility shall submit each report listed in Table 11, as applicable.
- 433 [40 CFR 63.2525] Facility shall keep records as specified in 40 CFR 63.2525 (a) - (k). [40 CFR 63.2525, 40 CFR 63.1-15]
- 434 [40 CFR 63.2540] All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 12 of 40 CFR 63 Subpart FFFF.
- 435 [40 CFR 63.] Unit 9 shall comply with all applicable provisions in 40 CFR 63 Subpart A.
- 436 [LAC 33:III.535] Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537]

General Information

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 Activity Number: PER20080018
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Also Known As:	ID	Name	User Group	Start Date
	2520-00001	Union Carbide Corp - Taft Star Plant	CDS Number	01-03-1990
	13-1421730	Federal Tax ID	Federal Tax ID	11-21-1999
	LAD041581422	Union Carbide Corp SCO Taft/Star	Hazardous Waste Notification	08-18-1980
	PMT/PC	GPRA Baselines	Hazardous Waste Permitting	10-01-1997
	LAD041581422	Union Carbide	Inactive & Abandoned Sites	06-08-1981
	LA0000191	LPDES #	LPDES Permit #	05-22-2003
	LAR10C313	LPDES #	LPDES Permit #	12-12-2004
	LAR10C447	LPDES #	LPDES Permit #	12-12-2004
	50152	ORIS Code	ORIS Code	09-16-2008
		Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
	LA-2163-L01	Radioactive Material License	Radiation License Number	07-06-2001
	2163	X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
	GD-089-1324	Site ID #	Solid Waste Facility No.	04-30-2001
	17809	Union Carbide Chemicals & Plastics	TEMPO Merge	10-17-2001
	19135	Dow Union Carbide - St Charles Operations	TEMPO Merge	06-30-2002
	34610	Union Carbide Corp - Hahnville Plant	TEMPO Merge	10-17-2001
	35033	Union Carbide Corp - Star Plant	TEMPO Merge	07-15-2001
	3832	Union Carbide Corp	TEMPO Merge	11-01-2000
	38779	Union Carbide Corp	TEMPO Merge	07-15-2001
	38780	Union Carbide Corp	TEMPO Merge	07-15-2001
	38882	Union Carbide Corp	TEMPO Merge	07-15-2001
	44903	Union Carbide Corp Taft Plant	TEMPO Merge	07-22-2001
	45881	Union Carbide Chemical & Plastics	TEMPO Merge	07-22-2001
	8533	Union Carbide	TEMPO Merge	09-05-2001
	89428	Dow Chemical	TEMPO Merge	11-07-2001
	9651	Union Carbide Star	TEMPO Merge	10-17-2001
	70057NNCRBHWY31	TRI #	Toxic Release Inventory	07-30-2004
	45011610	UST Facility ID (from UST legacy data)	UST FID #	10-12-2002

Physical Location:

355 Hwy 3142 Gate 28
 Taft, LA 70057

Mailing Address:

PO Box 50
 Hahnville, LA 700570050

Main Phone: 9857834411

General Information

AI ID: 2083 Union Carbide Corp - St Charles Operations

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Location of Front Gate:

29 982289 latitude, -90 455622 longitude, Coordinate Method: Lat/Long - DMS, Coordinate Datum: NAD83

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Tim Brady	PO Box 50 Hahnville, LA 700570050	9857834813 (WP)	Emission Inventory Contact for
Tim Brady	PO Box 50 Hahnville, LA 700570050	BRADYTD@DOW.C	Emission Inventory Contact for
Emergency Operations Center	PO Box 50 Hahnville, LA 70057	9857834387 (WP)	Katrina Response Contact for
Percy Gasery	PO Box 50 Hahnville, LA 700570050	9857834315 (WP)	Radiation Safety Officer for
Percy Gasery	PO Box 50 Hahnville, LA 700570050	9857834315 (WP)	Radiation Contact For
Eric Kilian	PO Box 50 Hahnville, LA 700570050	9857834241 (WP)	Accident Prevention Billing Party for
Eric Kilian	PO Box 50 Hahnville, LA 700570050	9857835423 (WF)	Accident Prevention Billing Party for
Responsible Care Leader	PO Box 50 Hahnville, LA 700570050	9857834411 (WP)	Air Permit Contact For
Responsible Care Leader	PO Box 50 Hahnville, LA 700570050	9857834411 (WP)	Responsible Official for
Sarah Thigpen	PO Box 50 Hahnville, LA 700700050	9857835423 (WF)	Accident Prevention Contact for
Sarah Thigpen	PO Box 50 Hahnville, LA 700700050	thigpesb@dow.com	Accident Prevention Contact for
Sarah Thigpen	PO Box 50 Hahnville, LA 700700050	9857835835 (WP)	Accident Prevention Contact for

Related Organizations:

Name	Address	Phone (Type)	Relationship
Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857834387 (WP)	Operates
Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857833454 (WF)	Emission Inventory Billing Party
Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857834387 (WP)	Owms
Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857833454 (WF)	Owms
Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857834387 (WP)	Radiation Registration Billing Party for
Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857833454 (WF)	Radiation Registration Billing Party for
Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857834387 (WP)	Water Billing Party for
Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857833454 (WF)	Water Billing Party for
Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857834387 (WP)	Air Billing Party for
Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857833454 (WF)	Air Billing Party for
Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857834387 (WP)	Solid Waste Billing Party for
Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857833454 (WF)	Solid Waste Billing Party for
Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857834387 (WP)	Radiation License Billing Party for
Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857833454 (WF)	Radiation License Billing Party for

General Information

AI ID: 2083 Union Carbide Corp - St Charles Operations

Activity Number: PER20080018

Permit Number: 2876-V2

Air - Title V Regular Permit Renewal

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857834387 (WP)	Accident Prevention Billing Party for
	Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857833454 (WF)	Accident Prevention Billing Party for
	Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857834387 (WP)	UST Billing Party for
	Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857833454 (WF)	UST Billing Party for
	Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857834387 (WP)	Emission Inventory Billing Party
	Union Carbide Corporation St Charles Operations	PO Box 50 Hahnville, LA 700570050	9857833454 (WF)	Operates

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF ENVIRONMENTAL SERVICES**

STATEMENT OF BASIS¹

PROPOSED PART 70 OPERATING PERMIT 2876-V2

**ST CHARLES OPERATIONS-UNIT 9
UNION CARBIDE CORPORATION
TAFT, ST. CHARLES PARISH, LOUISIANA
Agency Interest (AI) No. 2083
Activity No. PER20080018**

I. APPLICANT

The applicant is: Union Carbide Corp - St Charles Operations
PO Box 50
Hahnville, Louisiana 70057-0050

Facility: Unit 9

SIC Code: 2821

Location: Approximate UTM coordinates are 746.184 km East and 3,319.222 km North, Zone 15.

II. PERMITTING AUTHORITY

The permitting authority is: Louisiana Department of Environmental Quality
Office of Environmental Services
P.O. Box 4313
Baton Rouge, Louisiana 70821-4313

III. CONTACT INFORMATION

Additional information may be obtained from:

L. Dugas
P.O. Box 4313
Baton Rouge, Louisiana 70821-4313
Phone: (225) 219-3127

IV. FACILITY BACKGROUND AND CURRENT PERMIT STATUS

Union Carbide Corporation (UCC), a subsidiary of the Dow Chemical Company, operates Taft/Star Manufacturing Complex, an existing chemical manufacturing facility that began

¹ 40 CFR 70.7(a)(5) and LAC 33:III.531.A.4 require the permitting authority to "provide a statement that sets forth the legal and factual basis for the proposed permit conditions of any permit issued to a Part 70 source, including references to the applicable statutory or regulatory provisions."